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$$\int_{(n-1)} (A_1^{a(n)} \beta^{(n)} p^{i(n)} p^{j(n)} p^{k(n)} + B_1^{b(n)} p^{i(n)} p^{j(n)} p^{k(n)} + C)^{1/2} du^1 du^2 \dots du^{n-1}$$
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ABELIAN INTEGRALS. See: algebraic functions; algebraic geometry; elliptic functions (Abelian integrals).

ABSOLUTE DIFFERENTIAL CALCULUS. See: differential geometry (Riemannian geometry); vector calculus (tensors).

ABSOLUTELY MONOTONE FUNCTIONS. See: completely monotone functions.

ABSTRACT SPACES. See: differential geometry (Finsler spaces); ergodic theory; functional analysis; functions of real variables (functions in abstract spaces); geometry (abstract metrics); groups; measure and integration; sets; topology (topological spaces).

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Analysis of mortality. Cf. Statistics (biometrics).

Spring, W.	35	Grace, W. L.		Walsh, J. E.	727
*Inocera, F.	426	Nesbitt, C. J.	620		
Spring, O. W.	447				

Insurance.

Spring, W.	35	Odier, M.	271	Sternhell, C. M.	753
Jecklin, H.	57	Stelson, H. E.	362	Steffensen, J. F.	753
Damle, S. C.	115	Jecklin, H.		Jecklin, H.	
Rybars, J.	115	Zimmermann, H.	447	Zimmermann, H.	863
Zwingli, E.	135	Kaiser, E.	516		

ADDITIVE NUMBER THEORY. See: number theory (additive).

AERODYNAMICS. See: hydrodynamics.

AFFINE DIFFERENTIAL GEOMETRY. See: differential geometry (conformal).

AGGREGATES. See: partially ordered sets; sets.

AIRFOIL THEORY. See: hydrodynamics (airfoil theory).

ALGEBRA: ABSTRACT. Cf. Algebra: linear; groups; partially ordered sets.

*van der Waerden, B. L.	236	*Shōda, K.	313	*Pickert, G.	583
		*Perron, O.	386	*Jacobson, N.	794

Universal algebra.

Riguet, J.	4	Kurepa, G.	134	Pickert, G.	583
Kurepa, D.	4	Lyapin, E. S.	134	Dubreil, P.	666, 667
Wendelin, H.	74	Riguet, J.	472	Riguet, J.	667
Kuo, Ke-Chan.	73	Krishnan, V.-S.	473	Harary, J.	667
Evans, T.	75	Tamari, D.	583	Lévy-Bruhl, J.	795
				Riguet, J.	796

ALGEBRA: ABSTRACT. (Continued)

Fields, function fields. Cf. Geometry (geometry in fields); number theory (algebraic number theory; class fields); analytic theory in number fields.

Jordan, P.	5	Seidenberg, A.	279	Preuss, G.	
*Bourbaki, N.	6	Pickert, G.	316	Schmidt, F. K.	670
Kaplansky, I.	6	Nakayama, T.	316	Dieudonné, J.	670
*Ritt, J. F.	7	Tannaka, T.	316	Chow, Wei-Liang.	740
Baer, R.	9	Terada, F.	316	*Jacobson, N.	794
Pickert, G.	76	Terada, F.	316	Nagell, T.	832
Krull, W.	155	Tannaka, T.	316	Châtelet, F.	832
Cassels, J. W. S.		Noether, E.	388	Néron, A.	832
Wall, G. E.	237	van der Corput, J. G.	475	Segre, B.	832
Kaplansky, I.	238	Dieudonné, J.	476	Matsuoka, T.	833
Chabauty, C.	238	Skornyakov, L. A.		Zariski, O.	853, 854
Steinitz, E.	238		668, 669		
Okugawa, K.	239				

Galois theory. Cf. Algebra: equations (classical Galois theory); number theory (class fields).

*Bourbaki, N.	6	Pickert, G.	316	Hasse, H.	677
Rukaviskii, P. K.	207	Nakayama, T.	316, 476	Riguet, J.	796
Nakayama, T.	237	Brauer, R.	482	Krasner, M.	796
Cassels, J. W. S.		Nakayama, T.	668	Dieudonné, J.	796
Wall, G. E.	237	Chevalley, C.		Krull, W.	796
Büsser, A. H.	315	Kolchin, E.	672		
Hochschild, G.	315				

p-adic theory. Cf. Number theory (algebraic number theory).

Asano, K.	75	Parry, C. J.	320	Dieudonné, J.	670
Dem'yanov, V. B.	315	Foster, A. L.	584	Krull, W.	796

Valuations.

Kaplansky, I.	6	Fuchs, L.	669	Krull, W.	796
Chabauty, C.	238	Preuss, G.		van der Waerden, B. L.	853
Jaffard, P.	475	Schmidt, F. K.	670		
Ostmann, H.-H.	668	Abellana, P.	740		

Commutative rings and ideal theory. Cf. Functional analysis (normed rings); partially ordered sets (Boolean algebras).

Lyapin, E. S.	5	Nakayama, T.	237	Kaplansky, I.	584
Fuchs, L.	6	Okugawa, K.	239	Grell, H.	584
Rédei, L.-Saele, T.	6	Seidenberg, A.	279	Rédei, L.	585
Levitaki, J.	6	Snapper, E.	314	Ostmann, H.-H.	668
Bourbaki, N.	6	Golovina, L. I.	314	Nakayama, T.	668
*Ritt, J. F.	7	Azumaya, G.	314	*Châtelet, A.	669
Mikusiński, J. G.	8	Snapper, E.	387	Okugawa, K.	670, 740
Drobot, S.		Noether, E.	388	Gröbner, W.	740
Mikusiński, J. G.	9	Krishnan, V.-S.	473	Northcott, D. G.	740
Saele, T.	9	Serre, J.-P.	473	Robinson, R. M.	791
Almeida Costa, A.	9	Smiley, M. F.	473	*Jacobson, N.	794
Vilenkin, N. Y.	10	Seendrei, J.	474	Arena, R.	795
Jacobson, N.	75	Brown, B.		Zelinsky, D.	795
Mařík, J.	75	McCoy, N. H.	474	Buck, R. C.	796
Herstein, I. N.	75	Levitaki, J.	474	Jaffard, P.	796
Sikorski, R.	76	Almeida Costa, A.	474	Ballieu, R.	
Lyapin, E. S.	154	Herstein, I. N.	475	Schulind, M.-J.	796
Rédei, L.-Saele, T.	155	Dörge, K.	583	Krull, W.	796
Dubreil-Jacotin, M.-L.-Dubreil, P.	202	Snapper, E.	584	Nakayama, T.	797
Saele, T.	237	Peremans, W.	584	Gröbner, W.	854
		Foster, A. L.	584	Samuel, P.	854

Noncommutative rings.

Asano, K.	75	Snapper, E.	387	Hua, Loo-Keng.	584
Herglots, G.	155	Jacobson, N.		Smiley, M. F.	668
Smeldmüller, V. I.	314	Rickart, C. E.	387		
Azumaya, G.	314	Hall, M., Jr.	388		

Associative algebras. Cf. Algebra: linear (special algebras).

Jordan, P.	5	Srinivas Rao, K. N.		Azumaya, G.	669
Albert, A. A.	5	Venkatarasimhaiah, C. K.	473	Nakayama, T.	797
Volov'evskaya, S. N.	7	Dörge, K.	583	Nakayama, T.	
Amitsur, A. S.		Kawada, Y.		Iheda, M.	797
Levitaki, J.	155	Iwahori, N.	585	Jacobson, N.	797
Goldie, A. W.	238	Buck, R. C.	669	Schaefer, R. D.	798
Evans, T.	475	Amitsur, A. S.		Penico, A. J.	798
Albert, A. A.	475	Levitaki, J.	669	Dubisch, R.	
		Brown, B.	669	Perlia, S.	798

ALGEBRA: ABSTRACT. (Continued)

Lie algebras. Cf. Groups (Lie groups).

Dynkin, E. B.	7	Iwahori, N.	Schafer, R. D.	798
Kossul, J.-L.	120	Satake, I.	Penico, A. J.	798
Dynkin, E. B.	238	Karpelevič, F. I.	Gotô, M.	798
Malcev, A. I.	239	Dynkin, E. B.	Matsushima, Y.	799
Igusa, J.	317	Malcev, A. I.	Kuročkin, V. M.	799
Vrănceanu, G.	390	Jacobson, N.		797

Nonassociative algebras.

Robinson, A.	5	Raffin, R.	Schafer, R. D.	798
Jenner, W. E.	75	Zemmer, J. L., Jr.	Penico, A. J.	798
Smiley, M. F.	75	Smiley, M. F.	Etherington, I. M. H.	798
Zukov, A. I.	238, 314	Jacobson, N.		797

Topological problems. Cf. Groups (continuous).

Kaplansky, I.	6	van Dantzig, D.	Kaplansky, I.	584
Berezanskii, Y. M.		Dieudonné, J.	Zelinsky, D.	795
Krein, S. G.	188, 189			

ALGEBRA: EQUATIONS. Cf. Polynomials.

*Kuroč, A. G.	73	*Vicente Gonçalves, J.	*Perron, O.	386
			*Hasse, H.	386

Symmetric functions. Cf. Combinatorial analysis.

van der Corput, J. G.	4	Todd, J. A.	Foulkes, H. O.	
Varoll, G.	73	Foulkes, H. O.		666, 793, 794
Robinson, G. de B.	74	Sakakihara, K.	Lévy-Bruhl, J.	795

Zeros, irreducibility. Cf. Algebra: linear (characteristic values); functions of complex variables (zeros); numerical methods (equations); polynomials (zeros); irreducibility).

Borofsky, S.	4	Mařik, J.	Jou, Yuh-Lin.	581
Perron, O.	4	Yakovkin, M. V.	Richard, U.	581
Niven, I.	4	Kröse, K.	Ostrowski, A.	596
*Ritt, J. F.	7	van der Corput, J. G.	Preuss, G.-Schmidt, F. K.	670

Classical Galois theory. Cf. Algebra: abstract (Galois theory).

Tachebotarjow, N. G.	77	Wilson, R. L.	Cohen, E.	677
Châtelet, F.	354	*Tachebotarjow, N.	Okunev, L. Y.	794
Amato, V.	389			

Systems of equations, elimination.

Brauer, A.	4	van der Mey, G.	Laureana, G.	387
*Ritt, J. F.	7	Vicente Gonçalves, J.	Mitrinovich, D. S.	472
Roth, W. E.	74			

Special equations.

Thronmouloupoulos, L.	153	Popov, B. S.		666
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ALGEBRA: LINEAR (CLASSICAL THEORY). Cf. Algebra: abstract; geometry (analytic; projective); groups; numerical methods (systems).

*Kuroč, A. G.	73	*Vicente Gonçalves, J.	*Perron, O.	386
			*Hasse, H.	386

Matrices, determinants; general theory. Cf. Series (convergence).

Goodwin, E. T.	3	Šilov, G. E.	Bower, J. W.	665
Parodi, M.	3	Sanielevici, S.	Eljoseph, N.	665
Stoyakovitch, M.	3	Ostrowski, A.	Potter, H. S. A.	665
*Jeffreys, H.		Ribeiro de Albuquerque, J.	Brenner, J. L.	666
Jeffreys, B. S.	12	querque, J.	Goddard, L. S.	738
*Zürmühl, R.	73	Schwerdtfeger, H.	Falk, S.	751
Robinson, G. de B.	74	Roth, W. E.	Glaser, V.	793
Todd, J. A.	74	Bell, J. H.	Price, G. B.	793
Parodi, M.	153	Sce, M.	Afriat, S. N.	793
Gyires, B.	153	Parker, W. V.	Drasin, M. P.	
*Souriau, J. M.	153	Reid, W. T.	Dungey, J. W.	
Lee, H. C.	153	Lidskii, V. B.	Gruenberg, K. W.	793
Mathis, H. F.	168	Wielandt, H.	Rutherford, D. F.	793
Lepage, T.	234	Drasin, M. P.	Kotlyanskii, D. Z.	795
Richter, H.	235	Murnaghan, F. D.	Lévy-Bruhl, J.	795
Cherubino, S.	235	Ascoli, G.	*Hamburger, H. L.	836
Birkhoff, G. D.	251	Checucci, V.	Grimshaw, M. E.	836

ALGEBRA: LINEAR (CLASSICAL THEORY). (Continued)

Special matrices, determinants.

Gégalkine, I.	2	Mitrinovich, D. S.	Boksenbom, A. S.	
Mitrinovich, D. S.	3	Hirsch, K. A.	Hood, R.	386
Popov, B. S.	3	Barnett, I. A.	Varoll, G.	471
DeFranchis, M.	50	Mendel, C. W.	Szele, T.	471
Del Vecchio, E.	234	Shenton, L. R.	Bruwier, L.	681
		Collar, A. R.	Foulkes, H. O.	793, 794

Special algebras. Cf. Functions of complex variables (functions of quaternion variables).

Lee, H. C.	153	Boschard, P.	Szele, T.	688
Deuring, M.	159	Jou, Yuh-Lin.	Rosenfeld, B. A.	747
Padini, A.	278			

Linear forms and equations. Cf. Functional analysis (equations); number theory.

Hornich, H.	419	Schwerdtfeger, H.		470
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Quadratic and bilinear forms. Cf. Functional analysis (equations); number theory.

Căzăs, A.	4	Shen, Y. C.	Murnaghan, F. D.	582
Szele, T.	4	Leng, S. M.	Yaglom, I. M.	582
Todd, J. A.	235	Egerváry, E.	Rédei, L.	585
Petr, K.	235, 236	Parodi, M.	Eichler, M.	591
Jarulek, J.	236	Afriat, S. N.	Mineur, H.	759
		Seitz, J.	Seebach, K.	793

Forms of higher degree. Cf. Number theory.

Jarulek, J.	154	Dem'yanov, V. B.	Todd, J. A.	666
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Characteristic values, elementary divisors.

*Zürmühl, R.	73	Ledermann, W.	Lidskii, V. B.	581
Parker, W. V.	74	Sce, M.	Wielandt, H.	581
Parodi, M.	74	Saeoka, S.	Vogel, A.	751
Maslov, F. G.	152	Bowers, W. A.	Afriat, S. N.	793
Lee, H. C.	153	Rosenstock, H. B.	Drasin, M. P.	
Gavurin, M. K.	209	Schwerdtfeger, H.	Dungey, J. W.	
Parodi, M.	234	Moore, M. J.	Gruenberg, K. W.	793
Kondô, K.	234	Reid, W. T.	Seebach, K.	793

ALGEBRA OF LOGIC. See: logic (formal); partially ordered sets.

ALGEBRAIC FUNCTIONS. Cf. Algebra: abstract (fields); algebraic geometry; elliptic functions; functions of complex variables (Riemann surfaces).

Pickert, G.	76	Dörge, K.	Tôyama, H.	818
*de Rham, G.		Bagdasarian, N.	Zariski, O.	853, 854
Kodaira, K.	279	On, V. T.	Tamagawa, T.	855
Igusa, J.	317			

ALGEBRAIC GEOMETRY. Cf. Algebraic functions; geometry (configurations; projective).

*Godeaux, L.	124	Libois, P.	*Weichman, W. G.	734
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Special curves and surfaces. Cf. Calculus (applications); geometry (elementary).

Martan, F.	48	Hohenberg, F.	Godeaux, L.	529
Franchetta, A.	48	Schmidt, H.	Weitszenböck, R. W.	630
García Arac, R.	102	Godeaux, L.	Lorent, H.	735
Bagchi, H.	125	Michael, W.	Edge, W. L.	735
Togliatti, E.	125	Godeaux, L.	Adam, D.	735
Claeys, A.	199	Nollet, L.	Godeaux, L.	737

Curves: general theory.

Hasse, H.	47	Piazolla Beloch, M.	Piazolla-Beloch, M.	736
Caccioppoli, R.	47	Châtelet, F.	Rosina, B. A.	736
Sa-Nagy, G.	48	Permutti, R.	Roselli, A.	736, 737
Franchetta, A.	48	Amato, V.	Godeaux, L.	737
Jongmans, F.	48	van der Waerden, B. L.	Bagchi, H. D.	
Berzolari, L.	48		Mukherji, B.	851
Vaona, G.	49	Baldassarri, M.	Rosina, B. A.	851
Segre, B.	50	Jongmans, F.	Huff, G. B.	851
Atchison, W. F.	125	Gherardelli, F.	Gandin, R.	851
van der Mey, G.	153	Châtelet, F.	Bydovský, B.	851
Arvesen, O. P.	276	*Godeaux, L.	Nagell, T.	852
Gaeta, F.	276	Godeaux, L.	Châtelet, F.	852
Ichida, A.	276	Manara, C. F.	Néron, A.	852
Galbur, G.	277	Šilov, G. E.	Segre, B.	852
Cognij, C.	277	Maasotti Biggiogero, G.	Tamagawa, T.	855
Godeaux, L.	277		Semple, J. G.	855
Severi, F.	353	Longhi, A.		

ALGEBRAIC GEOMETRY. (Continued)

Surfaces, varieties: general theory.

Wirtinger, W.	17	Muhly, H. T.	278	Lenze, J.	738
Babbage, D. W.	49	Zariak, O.	278	Goddard, L. S.	738
Bike, M.	49	Seidenberg, A.	279	Jongmans, F.	739
Giambelli, G.	49	*de Rham, G.	279	Segre, B.	739
Vaona, G.	49	Kodaira, K.	279	Nollet, L.	739
Segre, B.	49	Severi, F.	353	d'Orgeval, B.	739
Hodge, W. V. D.	50	Fano, G.	355	Roth, L.	739
DeFranchis, M.	50	Roth, L.	355	Okugawa, K.	740
Godeaux, L.	125	Jongmans, F.	356	Gröbner, W.	740
Todd, J. A.	125	Scott, D. B.	356	Chow, Wei-Liang.	740
Piazzolla Beloch, M.	126	Benedicty, M.	356	Northcott, D. G.	740
Zappa, G.	126	Defrasi, P.	356	Abellana, P.	740
Comessatti, A.	127	Galañani, V. E.	438	Segre, B.	852
Hodge, W. V. D.	127	Burniat, P.	438	Errera, A.	853
van der Waerden, B. L.	127	Roth, L.	438	Matsusaka, T.	853
Severi, F.	127	Baldassarri, M.	438	Abellana, P.	853
d'Orgeval, B.	159	Martinielli, E.	439	Fernández Biarge, J.	853
Dantoni, G.	199	van der Waerden, B. L.	527	van der Waerden, B. L.	853
Segre, B.	200	Manara, C. F.	528	Zariak, O.	853, 854
Barozzi, I.	200	Roth, L.	528	Kneser, H.	854
Severi, F.	201	Fano, G.	528	Gröbner, W.	854
Samuel, P.	202	Wilson, E. M.	528	Samuel, P.	854
Dubrell-Jacotin, M.-L.-Dubrell, P.	202	Gierardelli, F.	528	Barker, C. C. H.	854
van der Waerden, B. L.	202	Gacta, F.	528	Kawahara, Y.	855
Godeaux, L.	277	Todd, J. A.	529	Du Val, P.	855
Galañani, V. E.	278	Godeaux, L.	529	Godeaux, L.	855
Fadini, A.	278	Fernández Biarge, J.	529	d'Orgeval, B.	855
Andreotti, A.	278	Salini, U.	633	Togliatti, E.	855
Garnier, R.	278	Gröbner, W.	633	Semple, J. G.	855
		Godeaux, L.	737, 738	Hall, R.	856

Cremona transformations.

Wylie, C. R., Jr.	50	Segre, B.	200	Villa, M.-Vaona, G.	438
Benedicty, M.	50	Barozzi, I.	200	van der Kulk, W.	439
Room, T. G.	125, 126	Muhly, H. T.	278	Godeaux, L.	529
Comessatti, A.	127	Zariak, O.	278	Fernández Biarge, J.	529
Dantoni, G.	199	Severi, F.	353	Salini, U.	633
Keller, O.-H.	199	Benedicty, M.	356	Bagchi, H.	741
Manara, C. F.	200	Defrasi, P.	356	Benedicty, M.	741
Villa, M.-Vaona, G.	200	Tanturri, G.	438		

ALGEBRAIC INVARIANTS. See: invariants (algebraic).

ALGEBRAIC NUMBERS. See: number theory.

ALMOST PERIODIC FUNCTIONS. Cf. Dirichlet series;

Fourier series.

Sunyer i Balaguer, F.	22	Eberlein, W. F.	112	Følner, E.	480
Tornehave, H.	22	*Cinquini, S.	174	Maak, W.	480, 508
Levin, B.	22	Kawata, T.		Love, E. R.	599
Kahane, J.-P.		Udagawa, M.	175	Bohr, H.	698
Laigüé, P.	22	Stone, M. H.	331	Marčenko, V. A.	698
Fréchet, M.	24	Levitani, B. M.	331	Behrens, E.-A.	698
*Nyman, B.	108	Hartman, S.	406	Schwartz, L.	833

ANALYTIC FUNCTIONS. See: functions of complex variables.

ANALYTIC GEOMETRY. See: geometry (analytic).

ANALYTIC THEORY OF NUMBERS. See: number theory.

ANTENNAS. See: electricity and magnetism (antennas).

APPROXIMATION AND EXPANSION OF FUNCTIONS.

Cf. Differential equations (boundary value problems); Fourier integrals; Fourier series; functions of complex variables (polynomial expansions; complex interpolation); integral transforms; interpolation; numerical methods; polynomials (polynomial approximations); series; special functions (functions defined by special expansions).

General theory.

Milne, W. E.	84	Deny, J.	258	Morozov, M. I.	680
Gál, I. S.		Brelot, M.	258	Mitchell, J.	698
Kokama, J. F.	86	Rényi, A.	321	Levi, E.	701
Bernstein, S. N.	176	Mandelbrojt, S.	596	Hewitt, E.	
Favard, J.	176	Leja, F.	609	Zuckerman, H. S.	801
Leja, F.	258	Sard, A.	680	Ahieser, N. I.	808
Landkof, N. S.	258	Dahlgren, L.	680		

Orthogonal functions and expansions. Cf. Polynomials (special polynomials).

Bohman, H.	21	Wing, G. M.	329	Rau, H.	409
Pollacksek, F.	24	Wilkins, J. E., Jr.	330	Schiffer, M.	491
Kozlov, V. V.	174	Gál, I. S.	403	Rudin, W.	697
Obrechko, N.	253	Campbell, R.	406	Sunouchi, G.	821
Castoldi, L.	256				

APPROXIMATION AND EXPANSION OF FUNCTIONS.

(Continued)

Completeness theorems.

Dírbalyan, M. M.	16	Mandelbrojt, S.	32	Ge'fond, A. O.	332
Ditkin, V. A.	21	Kozlov, V. V.	92, 174	Redheffer, R. M.	823
Leont'ev, A. F.	21	Dírbalyan, M. M.	248		

Best approximation.

Zoukhovitsky, S.	24	Bochner, S.	255	Morozov, M. I.	680
Sard, A.	84	Timan, A. F.	328	Fejér, L.	706
Ahieser, N. I.	89	Ibragimov, I. I.	331	Dzyadyk, V. K.	822
Remez, E. Y.	93	Nikol'skii, S. M.	331	Timan, A. F.	823
Bernstein, S. N.	95	Meyers, L. F.		Gukevič, V. I.	824
Mergelyan, S. N.	176	Sard, A.	396		

AREA. See: measure and integration (area).

ARITHMETICAL FUNCTIONS. See: number theory (number-theoretical functions).

ASTRONOMY.

Celestial dynamics. Cf. Mechanics.

Rubbert, F. K.	210	Wood, H.	360	Tuominen, J.	642
Lattermann, K.	210	Mineur, H.	543, 642	Stehle, P.	642

3 and n-body problem.

Lattermann, K.	210	Radsievskii, V. V.	448	Bélorisky, D.	550
Hil'mi, G. F.	210, 296	Agostinelli, C.	449	Chazy, J.	645
Miyahara, S.	365	Michailovitch, D.	550	Saltykow, N.	759

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Wasow, W.	29	Ryabov, B. A.	335	Colombo, G.	611
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Hacar Benites, M. A.	102	Sawyer, W. W.	500	Ascoli, G.	707
Cambi, E.	180	Nordson, J.	501	Williams, J.	707
Cakalov, L.	182	Mitrinovich, D. S.	501	Cocconi, J.	707
Spente, E.	183	Bergmann, O.	501	Schäfer, F. W.	707
Mitrinovich, D. S.	183	Coveyou, R. R.	501	Verholomov, D. F.	707
Maimfora, K. G.	290	Mulliken, T. W.	501	Imai, I.	707
Adamov, N. V.	336	Simonart, F.	539	Viguler, G.	741
Pinney, E.	336	Ikedu, Y.-Soeya, T.	539	Pedrazzini, P.	828
Mitrinovich, D. S.		Mitrinovich, D. S.	558, 612	Conte, L.	828
Vidav, I.	336			Mitrinovich, D. S.	828
Borg, S. F.	372	Försterling, K.		Sesawa, K.	868
Šilov, G. E.	411	Wolster, H.-O.	612	Kansai, K.	868
Breves Filho, J. A.	414	Viguler, G.	612	Kaplan, C.	875

Total equations, Pfaff problem.

Germay, R. H.	100	Pinl, B.	708		
Schouten, J. A.	613	Saltykow, N.	829		

Partial equations: first order, systems, etc.

Pokras, M. P.	29	Bernstein, D. L.	262	Landis, E. M.	337
Germay, R. H.	103	Pfeiffer, G.	262	Cinquini Cibrario, M.	337
Fichera, G.	103	Moisil, G. C.	262	Becker, H.	415
Šabat, B. V.	173	*Petrovskii, I. G.	334	Aczél, J.	613
Bers, L.	173	*Horn, J.	336	Saltikov, N.	829
Barbalin, E. A.	182	Cramlet, C. M.	336	Schwartz, L.	833
Moisil, G. C.	184				

Partial equations: second order: general theory.

*Jeffreys, H.		*Horn, J.	336	Butlewski, Z.	614
Jeffreys, B. S.	12	Courant, L.-Lax, P.	337	*Krylov, A. N.	615
Schwartz, L.	31	Bouligand, G.	337	*Lense, J.	701
Germay, R. H.	103	Sbrana, F.	416	Popovici, C.	708
Fours-Bruhat, Y.	185	Rollero, A.	530	Saltikov, N.	830
Bernstein, D. L.	262	Aczél, J.	613	Schwartz, L.	833
Moisil, G. C.	262				

Partial equations: second order: elliptic. Cf. Elasticity; electricity and magnetism; harmonic functions; hydrodynamics; potential theory.

Bergman, S.	25	Datzeff, A.	263	Cimmino, G.	503
Bonnall, F. F.	26	Lehto, O.	337	Ladyženskaya, O.	615
Pignodoli, A.	29	Titchmarsh, E. C.	337	Gårding, L.	708
Carleman, T.	83	Jacobson, A. W.	338	Hornich, H.	708
Sbrana, F.	95	Bergman, S.	402	Gillie, P. P.	830
Fichera, G.	103	Olevskii, M. N.	415	Vilák, M. I.	830
Krzyżański, M.	105	Gillie, P. P.	415	Haack, W.	
Clorkeescu, N.	184	Gelfand, I. M.	503	Hellwig, G.	830
Colino, A.	262	Bergman, S.	503	Mihlin, S. G.	830
Kahan, T.	262	Schiffer, M.	503	Keldyš, M. V.	835
Kupradze, V. D.	263				

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Partial equations: second order: parabolic. Cf. Diffusion; elasticity; heat conduction; hydrodynamics.

Tihonov, A. N.	29	Evans, G. W. II.	Vodicka, V.	503
Tomilov, E. D.	30	Isaacson, E.	Datzeff, A.	504
Fichera, G.	103	MacDonald, J. K. L.	Plakunov, N. S.	614
Hartman, P.			Krzyżdański, M.	614
Wintner, A.	104	Danckwerts, P. V.	Ladyženskaya, O. A.	709
Cooper, J. L. B.	104	Obrechtkoff, N.	Greco, D.	709
Dacev, A. B.	104	Barenblatt, G. I.	van Gorcum, A. H.	709
Jaeger, J. C.	105	Jaeger, J. C.	Rubinstein, L. I.	710
Zanobetti, D.	105	Sato, T.	Dacev, A. B.	710
Krzyżdański, M.	105	Christov, C.	Sestini, G.	710
Frank, F. C.	184	Lesky, P.	Podolsky, B.	710
Jost, W.	184	Luchak, G.	Babbitt, J. D.	710
Datzeff, A.	263	Langstroth, G. O.	Biegeleier, G.	831
		Sbrana, F.	Ciliberto, C.	831

Partial equations: second order: hyperbolic. Cf. Elasticity (wave propagation); electricity and magnetism (waves); geophysics; hydrodynamics (wave propagation); potential theory.

Germay, R. H. J.	30	Ladyženskaya, O.	De Donder, T.	708
Zwirner, G.	103	Robinson, A.	Bareiss, E.	708
Chen, Yu Why.	103	Bureau, F.	Holder, E.	709
Clorinescu, N.	184	Hodge, P. G., Jr.	Becker, H.	709
Cooper, J. L. B.	184	Lachay, E.	Cadorin, D.	831
Fornythe, G. E.	264	Haack, W.	Smolicki, H. L.	831
Courant, L.-Lax, P.	337	Hellwig, G.	Gårding, L.	831

Partial equations of higher order. Cf. Elasticity; hydrodynamics.

Germay, R. H. J.	30	Pietel, A.	Majer, J.	339
Prakash, S.	105	Popovici, C.	Germay, R. H. J.	416
Schröder, K.	185	*Horn, J.	Fichera, G.	505
Hallöf, Z. I.	185	Courant, L.-Lax, P.	Weinstein, A.	559
John, F.	185	Robinson, A.	Aleksandryan, R. A.	615
Bernstein, D. L.	262	Bureau, F.	Krylov, A. N.	615
Mosall, G. C.	262	Saleh, G. S.		

Partial equations: special types. Cf. Special functions.

Hartman, P.		Aleksandryan, R. A.	Camm, G. L.	754
Wintner, A.	51	*Krylov, A. N.	Zerna, W.	770
Costi, R.	614	Hornich, H.		

Infinitesimal transformations. Cf. Contact transformations.

Engel, F.	52	Petrascu, S.	*Birkhoff, G.	365
Karapandjitch, G.	102	Miyahara, S.	Saltikov, N.	829
Gonzalez, M. O.	102			

Applications of integral transforms: ordinary and partial. Cf. Operational calculus.

Vodicka, V.	23	Prakash, S.	Kallmann, H.	
Pokras, M. P.	29	Trimmer, J. D.	Päster, M.	464
Sbrana, F.	95	Cooper, J. L. B.	Friedman, M. D.	613
Ditkin, V. A.	95	Wasow, W.	Gallone, S.	
Fichera, G.	103	Sarginson, K.	Salvetti, C.	710
Zwirner, G.	103	Coe, C. J.	Sesawa, K.	
Jaeger, J. C.	105	Ladyženskaya, O.	Kanal, K.	868
Zanobetti, D.	105	Majer, J.		

Boundary value and expansion problems, characteristic values: ordinary and partial. Cf. Harmonic functions (Dirichlet problem).

Hartman, P.		Evans, G. W. II.	Marčenko, V. A.	502
Wintner, A.	29	Isaacson, E.	Titchmarsh, E. C.	502
Ledineg, E.	29	MacDonald, J. K. L.	Levitan, B. M.	502
Pignedoli, A.	29		Krein, M. G.	502
Sears, D. B.	102	Danckwerts, P. V.	Gelfand, I. M.	503
Titchmarsh, E. C.	102	Obrechtkoff, N.	Tritznayak, W. J.	505
Kodaira, K.	103	Barenblatt, G. I.	Broglio, L.	540
Greco, D.	103	Jaeger, J. C.	Syng, J. L.	556
Fichera, G.	103	Sato, T.	Levin, B. M.	605
Chen, Yu Why.	103	Fornythe, G. E.	Krein, M. G.	613
Dacev, A. B.	104	Pietel, A.	Friedman, M. D.	613
Jaeger, J. C.	105	Lesky, P.	Kato, T.	613
Zanobetti, D.	105	Chu, E. L.	Ladyženskaya, O.	615
Hartman, P.		Kahan, T.	Aleksandryan, R. A.	615
Wintner, A.	179	Moshinsky, M.	Mambriani, A.	681
Marčenko, V. A.	183	Cimmino, G.	Voelker, D.	
Titchmarsh, E. C.	183	Titchmarsh, E. C.	Dostach, G.	699
*Levitan, B. M.	183	Jacobson, A. W.	Saeg, G.	703
Barenblatt, G. I.	183	Krein, M. G.	Inoue, M.	704
Rapoport, I. M.	183	Thomas, L. H.	Wintner, A.	704
Zwirner, G.	183	Paddeeva, V. N.	Marčenko, V. A.	707
Schröder, K.	185	Smolicki, H. L.	Case, K. M.	708
Hallöf, Z. I.	185	Hartman, P.	Titchmarsh, E. C.	708
Rapoport, I. M.	260	Putnam, C. R.	Hassé, H. R.	770
Holmberg, B.	260	Kornhauser, E.	Levinson, N.	828
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Doyle, T. C.	261	Persidskii, K. P.	Vilhi, M. I.	830
Kupradze, V. D.	263	Burgat, P.	Haack, W.	
Datzeff, A.	263	Borg, G.	Hellwig, G.	830

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Marčenko, V. A.	183	Marčenko, V. A.	502	Moretti, M.	707
Levitan, B. M.	183	Popken, J.	600	Marčenko, V. A.	707
Boas, R. P., Jr.	249				

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*Vygodskii, M. Y.	127	*Schouten, J. A.	
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Biernacki, M.	47	Bouligand, G.	356	Haupt, O.	634
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Classical differential geometry in general. Cf. Contact transformations.

Hopf, E.	13	Ram Behari		Hopf, H.	634
Mickie, E. J.	13	Mishra, R. S.	281	Wu, G.	635
Zaat, J.	51	Hartman, P.		Löbell, F.	635
Sibrani, F.	51	Wintner, A.	357	Santaló, L. A.	686
Hartman, P.		Hartman, P.	357	Kahane, A.	741
Wintner, A.	51	Blank, Y. P.	357	Galafassi, V. E.	741
Bernikela, S. N.	129	Gordevalil, D. Z.	357	Mineo, C.	742
Ullar, J.	129	Löbell, F.	439	Tortorici, M.	742
Mishra, R. S.	129	Egervary, E.	529	Hartman, P.	
Terracini, A.	129	Ullar, J.	530	Wintner, A.	742
Kruppa, E.	129	Löbell, F.	530	Wunderlich, W.	742
Marusai, A.	129	Bompiani, E.	530	Borlaov, V. F.	743
Backes, F.	204	Mühlendyck, O.	531	Terracini, A.	743
Verbickil, L. L.	204	Özkan, A.	532	Longo, C.	743
Tschoff, I.	280	Nanjundiah, T. S.	634	Calapso, R.	746
Yaglom, I. M.	280	Fenchel, W.	634	Moór, A.	856
Petkantschin, B.	280	Urban, A.	634	Wunderlich, W.	856
Boi, G.	280				

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Müller, H. R.	280	Kurita, M.	744
Garnier, R.	531	van Oosten, C. P. S.	744

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Hristov, W. K.	129	Marusai, A.	530	Olguin, J.	699
Voderberg, H.	130	Rollero, A.	530	Hauer, F.	857
Mandan, K.	203	Vincenzini, P.	530		

Special curves and surfaces. Cf. Calculus (applications).

Zaat, J.	51	Petkantschin, B.	203	Popa, I.	529
Tekddor, J.	128	Roset, O.-Paquet, H.	203	Marusai, A.	530
Seifert, L.	128	Roset, O.	203	Simonart, F.	530
Wunderlich, W.	128	Popa, I.	280	Mühlendyck, O.	531
Lorent, H.	128	Bacon, E. H.	280	Vivanti, G.	741
Marusai, A.	129	Buch, E. R.	280	Viguer, G.	741
Santellevi, S.	203	Kadeřevsk, F.	280	Manikarnikamma, S. N.	741
Bhattacharya, P. B.	203	Remba, J.	281	S. N.	741
Behari, R.	203	Alardin, F.	281	Deweck, M.	741
Mishra, R. S.	203	Fabricius-Bjerre, M.	356	Strubecker, K.	856
Mathéev, A.	203	Sawyer, W. W.	500	Wunderlich, W.	856

Minimal surfaces. Cf. Calculus of variations (minimal surfaces).

Roset, O.-Paquet, H.	203	Pini, M.	438
Blank, Y. P.	357	Reade, M. O.	744

Families and nets of curves, webs.

Backes, F.	51	Unger, G.	439	Tanturri, G.	610
Engel, F.	52	Van Bouchout, V.	440	Rosca, R.	742
Vranceanu, G.	53	Simonart, F.	440	Kasner, E.	
Simonart, F.	128	Grove, V. G.	440	De Cicco, J.	757
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Lemoine, S.	205	Simonart, F.	530	Lemoine, S.	837
Alardin, M.	281	Zarembo, S. K.	531	Jeger, M.	857
Dubnov, J.	282				

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Buschegruencke, S. S.	52	Mishra, R. S.	532	Backes, F.	745
Rosenfeld, B.	52	Backes, F.	532	Delgicize, A.	745
Jonas, H.	130	Löbell, F.	635	Roset, O.	745
Garnier, R.	203	Charreau, A.	635	Marcus, F.	746
Mishra, R. S.	203	Borel, E.	656	Saban, G.	746
Müller, H. R.	280	Jonas, H.	744	Mishra, R. S.	746, 857
Terracini, A.	439	*Finikov, S. P.	744	Siray, S.	857
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Convex bodies; isoperimetric problems.

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Rosenfeld, B. A.	149	Käsch, A.	566	Lanc, A. G.	779
Gadsden, C. P.	180	Tomonaga, S.	566	Ming, Nai-Ta.	779
Zadeh, L. A.	180	Kovalenkov, V. I.	566	Zadeh, L. A.	779
*Gavrilov, M. A.	225	Kuznetsov, V. N.	566	Mathews, W. E.	780
Cotte, M.	225	Zadeh, L. A.	567	Ahmed, R.	780
Bott, R.-Duffin, R. J.	307	Péllissier, R.	567	Lewis, I. A. D.	887
Nijenhuis, W.	307				

Technical applications.

Zickner, G.	147	Brazma, N. A.	657	Ledinegg, E.	
Chambers, R. G.	147	Friedman, B.	777	Urban, P.	777
Logunov, A. A.	377			Goubau, G.	883

ELECTRON OPTICS. See: optics (electron optics).

ELEMENTARY DIVISORS. See: algebra: linear (characteristic values).

ELEMENTARY GEOMETRY. See: geometry (elementary).

ELIMINATION, THEORY OF. See: algebra: abstract; algebra: equations (systems); invariants (algebraic).

ELLIPTIC DIFFERENTIAL EQUATIONS. See: differential equations; electricity and magnetism; functional analysis (existence theorems); harmonic functions; hydrodynamics; numerical methods (differential equations); potential theory.

ELLIPTIC FUNCTIONS AND RELATED TOPICS. Cf. Algebraic functions.

Elliptic functions and integrals.

Hase, H.	12	Kaplan, E. L.	256	Métrai, P.	490
*Jeffreys, H.		Sadowy, M. A.		*Graessner, E.	607
Jeffreys, H. S.	12	Sternberg, E.	259	Rumyantsev, V. V.	607
Ward, M.	159	Jenkins, J. A.		Toscano, L.	607
Brödel, W.	169	Spencer, D. C.	400	Kolcher, M.	860
Low, A. R.	256	*Ahleser, N. I.	409		

ELLIPTIC FUNCTIONS AND RELATED TOPICS.

(Continued)

Abelian integrals.

Wirtinger, W.	17	de Rham, G.		Kodaira, K.	603
Haase, H.	47	Kodaira, K.	279	Benedicty, M.	741
Atchison, W. F.	125	Virtanen, K. I.	493	Tôyama, H.	818

Theta functions.

de Rham, G.		Rauch, L. M.	813
Kodaira, K.	279		

Automorphic and modular functions.

Sommer, F.	91	Fueter, R.	172	Métrai, P.	490
Deuring, M.	159	Bellman, R.	319	Hervé, M.	693
Conforto, F.	172	Maass, H.	319		

Modular groups and generalizations; fundamental domains.

Haase, H.	12	Peterson, H.	394	Elchler, M.	591
Nielsen, J.	160	Braun, H.	482	Peterson, H.	806
Siegel, C. L.	390	Grosswald, E.	591	Tôyama, H.	818

ENTIRE FUNCTIONS. See: functions of complex variables.

EQUIDISTRIBUTION PROBLEMS. See: Diophantine approximations (equi-distribution problems).

EQUILIBRIUM, FIGURES OF. See: astronomy (figures of equilibrium).

ERGODIC THEORY. Cf. Measure and integration; probability (Markov chains); statistical mechanics; symbolic dynamics.

Kakutani, S.	33	Dixmier, J.	267	Yood, B.	716
Fomin, S. V.	33	Aoki, K.	267	Cotlar, M.	
Fréchet, M.	34	Barbašin, E. A.	422	Ricabarra, R. A.	719
Loève, M.	34	Gurevič, A. A.		Ansal, H.	719
Kokama, J. F.	86	Rohlin, V. A.	422	Utz, W. R.	720
Eberlein, W. F.	112	Kulpera, L.		Bernard, R. R.	720
Ansal, H.	190	Meulenheid, B.	489	Peck, J. E. L.	835
Ionescu Tulcea, C. T.		Kondô, M.	509	Utz, W. R.	837
Marinescu, G.	266	Mourier, E.	616		

ERRORS, THEORY OF. Cf. Numerical methods (differences); statistics.

Plackett, R. L.	194	Cohen, E. R.	444	Ansermet, A.	641
Tárczy-Hornoch, A.	194	Grest, P. G.	513	Banachiewicz, T.	641
Levitaki, N. I.	295	Sibagaki, W.	513	Säuberli, R.	641
Müller, M.	321	*Scurborough, J. B.	537	Maruak, A.	641
Reiersøl, O.	347	Souriau, J.-M.		Inman, S.	750
Arbey, L.	347	Bonnard, R.	638	Nobile, A.	750
Bachmann, W. K.	362	Turetsky, R.	641	Loud, W. S.	860
van Wijngaarden, A.	444	Grest, P. G.	641	Turing, A.	860
Tienstra, J. M.	444				

ESTIMATION, STATISTICAL. See: statistics (sampling theory).

EULER'S FORMULA. See: differences (summation formulas); numerical methods; series (asymptotic).

EULER'S NUMBERS. See: differences; series (special sequences).

EXPANDING UNIVERSE. See: astronomy (cosmology); relativity.

EXPANSIONS OF FUNCTIONS. See: approximation.

EXTREMAL PROBLEMS. See: calculus of variations; Fourier series (extremal problems); functions of complex variables (extremal problems); inequalities; isoperimetric problems; polynomials (extremal problems).

FACTORIAL SERIES. See: series (power series).

FERMAT. See: number theory.

FIBONACCI NUMBERS. See: number theory; series (special sequences).

FIELDS. See: algebra: abstract; number theory.

FIGURES OF EQUILIBRIUM. See: astronomy (figures of equilibrium).

FINANCE, MATHEMATICS OF. See: actuarial mathematics (mathematics of finance).

FINITE GEOMETRY. See: differential geometry (set-theoretical methods); elementary geometry (geometry in fields).

FINSLER SPACES. See: calculus of variations (generalized geometrical theory); differential geometry (Finsler spaces); geometry (Minkowski geometry; abstract metrics).

FIXED POINTS. See: integral transforms (self-reciprocal functions); functional analysis (existence theorems); topology.

FORMS, THEORY OF. See: algebra: linear; number theory (theory of forms).

FOUNDATIONS. See: geometry (foundations); intuitionism; logic; philosophy; probability (foundations); sets (axiomatics).

FOUR-COLOR PROBLEM. See: topology (graphs).

FOURIER INTEGRALS. Cf. Differential equations (applications); integral transforms; number theory (analytical tools); numerical methods (practical harmonic analysis).

General theory.

Barrucand, P.	22	de Bruijn, N. G.	250	Cooper, J. L. B.	496
Guinand, A. P.	175	Henstock, R.	496	Tsujii, M.	681

Summability.

Herrera, F. E.	21	Maravall, D.	331
González Domínguez, A.	330	Cooper, J. L. B.	496

Fourier-Stieltjes integrals, distribution functions. Cf. Moments; probability (distribution functions).

Kawata, T.	94	Cooper, J. L. B.	496	Fan, Ky.	593
Levitani, B. M.	95	Phillips, R. S.	496	Lukacs, E.-Szász, O.	823
Šreider, Y. A.	330				

Generalizations.

*Schwartz, L. 833

FOURIER SERIES, TRIGONOMETRIC SERIES. Cf. Almost periodic functions; numerical methods (practical harmonic analysis).

Trigonometric polynomials.

Iszinger, R.	46	Iliev, L.	173	Leis, H.	821
Schoenberg, I. J.	92	Bochner, S.	235	Dayadyk, V. K.	822

Extremal problems. Cf. Inequalities.

Schoenberg, I. J.	92	Hartman, P.		Karle, J.	
Ingham, A. E.	255	Wintner, A.	495	Hauptman, H.	496
Markovitch, D.	403	Harker, D.		Goedkoop, J. A.	496
Karamata, J.		Kasper, J. S.	496	Karamata, J.	
Tomíć, M.	482	Gills, J.	496	Tomíć, M.	805
Stečkin, S. B.	495	MacGillavry, C. H.	496	Ogieveckil, I. I.	821, 822
Hyttén-Cavallius, C.	495				

Trigonometric interpolation.

Morosov, M. I.	93	Sunouchi, G.	821
Klein, G.	495	Dayadyk, V. K.	822

FOURIER SERIES, TRIGONOMETRIC SERIES. (Continued)

Fourier coefficients, degree of approximation.

Wang, Shou-jen.	21	Timan, A. F.	328	Sunouchi, G.	696
Ghizzetti, A.	94	Sreider, Y. A.	330	Tsuchikura, T.	821
Isumi, S.	174	Büdwadt, U. T.	493	Civin, P.	821
Bochner, S.	255	Janssen, J. M. L.	493	Ogieveckij, I. I.	821
Calderón, A. P.					
Zygmund, A.	255				

Convergence, summability.

Szász, O.	21	Men'šov, D. E.	254, 255	Mahapatra, S.	495
Herrera, F. E.	21	Calderón, A. P.		Sz.-Nagy, B.	605
Blondel, A. V.	93	Zygmund, A.	255	Salem, R.	
Nikol'skij, S.	93	Zamansky, M.	328	Zygmund, A.	605
Zamansky, M.	93	Matsuyama, Y.	328	Mohanty, R.	696
Natanson, I. P.	94	Prasad, B. N.		Matsuyama, N.	696
Safronova, G. P.	94	Siddiqi, J. A.	329	Jurkat, W.	696
Pipes, L. A.	94	Scherbina, A. D.	329	Sunouchi, G.	696, 697
James, R. D.	94	Schmetterer, L.	329	Berkovitz, L. D.	697
Tsuchikura, T.		Morse, M.		Wang, Shou-jen.	697
Yano, S.	174	Tranue, W.	329	Lozinskij, S. M.	697
Sunouchi, G.	174	Schmetterer, L.	405	Mitchell, J.	698
Rényi, A.	174	Isumi, S.	405	Sunouchi, G.	
Obrechikoff, N.	174	Isumi, S.		Yano, S.	821
Kawata, T.		Sunouchi, G.	405	Zamansky, M.	821
Udagawa, M.	175	Szász, O.	405	Mohanty, R.	822
Sunouchi, G.-I.	254	Zamansky, M.	405	Matveev, I. V.	822
Isumi, S.	254	Cheng, Min-Teh.	406	Gahariya, K. K.	822
Matsuyama, N.	254				

Conjugate functions.

Žak, I. E.	93	Calderón, A. P.	255	Civin, P.	821
Zamansky, M.	94	Scherbina, A. D.	329	Zamansky, M.	821

Uniqueness theory.

Ditkin, V. A.	21	Hirschman, I. I., Jr.		Heyting, A.	664
Kahane, J.-P.		Jenkins, J. A.	94	Sunouchi, G.	696
LaLagüe, P.	22	Henstock, R.	496	Rudin, W.	697

Double series.

Žak, I. E.	93	Cheng, Min-Teh.	406	Mitchell, J.	698
Cheng, Min-Teh.	174	Berkovitz, L. D.	697	Matveev, I. V.	822
Sunouchi, G.-I.	254	Wang, Shou-jen.	697	Gahariya, K. K.	822
Morse, M.		Lozinskij, S. M.	697		
Tranue, W.	329				

Generalized Fourier series. Cf. Approximation.

Bohman, H.	21	Gál, I. S.	405	Waterman, D.	496
Kozlov, V. Y.	92	Campbell, R.	406	Rudin, W.	697
Remes, E. Y.	93	Udagawa, M.	406	Mitchell, J.	698
Obrechikoff, N.	255	Kawata, T.	406	Behrens, E.-A.	698
Wing, G. M.	329	Maruyama, G.	406	Sunouchi, G.	821
Wilkins, J. E., Jr.	330	Rau, H.	409	Redheffer, R. M.	823

FRACTIONAL DIFFERENTIATION AND INTEGRATION. See: differentiation of fractional order.

FREQUENCY FUNCTIONS. See: probability; statistics.

FUNCTION FIELDS. See: algebra; abstract (fields); algebraic functions; number theory (analytic theory).

FUNCTIONAL ANALYSIS. Cf. Continuous geometry; differential equations (differential operators); ergodic theory; measure (abstract theory); symbolic dynamics; topology.

Smithies, F. 715

General abstract spaces. Cf. Differential geometry (Finsler spaces); functions of real variables (integration in abstract spaces); geometry (abstract metrics); sets; topology (topological spaces).

*Bourbaki, N.	40	Alexiewicz, A.	418	Cooke, R. G.	694
Millk, L.	108	Blumenthal, L. M.	436	Grothendieck, A.	715
Morse, M.		Dieudonné, J.	476	Dieudonné, J.	715
Tranue, W.	110, 188	Fréchet, M.	486	Monna, A. F.	715
Mikusiński, J. G.	189, 190	Alexiewicz, A.	507	Sebastião e Silva, J.	715
Nikodym, O. M.	342	Maak, W.	508	Waśniewski, T.	716
Köthe, G.	417	Grothendieck, A.	615	Myers, S. B.	727
Dieudonné, J.		Aczél, J.	615	*Schwartz, L.	833
Schwartz, L.	417	Köthe, G.	615	*Lévy, P.	834
Grothendieck, A.	417	Mattila, S.	619	Dieudonné, J.	834

FUNCTIONAL ANALYSIS. (Continued)

Normed linear spaces.

Hille, E.	10	Fullerton, R. E.	188	Marinescu, G.	508
Leray, J.	32	Jerison, M.	188	Wilansky, A.	615
Myers, S. B.	32	Vosida, K.	190	Yamabe, H.	616
Mandelbrojt, S.	32	Landkof, N. S.	258	James, R. C.	616
Fomin, S. V.	33	Deny, J.	258	Mourier, E.	616
Sard, A.	84	Goodner, D. B.	266	Jerison, M.	616
Milne, W. E.	84	Yood, B.	266	Sargent, W. L. C.	616
*Nyman, B.	108	Ionescu Tulcea, C. T.		Phillips, R. S.	617
Hille, E.	110	Marinescu, G.	266	Hamilton, H. J.	694
Kozlov, V. Y.	110	Iseki, K.	342	Cooke, R. G.	694
McShane, E. J.	110	Ghika, A.	342, 343	Cronin, J.	716
Citlanadze, E. S.	110	Alexiewicz, A.	418	Yood, B.	716
Krasnosel'skij, M. A.	111	Orlicz, W.	418	Aoki, T.	717
Valberg, M. M.	111	Schatten, R.	418	Newburgh, J. D.	717
Eberlein, W. F.	112	Prachar, K.	418	Taylor, A. E.	717
Mourier, E.	114	Kantorovič, L. V.	419	Wielandt, H.	717
Brodskiĭ, M. S.	119	Myslovskij, I. P.	419	Pettis, B. J.	835
*Schatten, R.	186	Hornich, H.	419	Zaanen, A. C.	835
Krasnosel'skij, M. A.	187	Phillips, R. S.	496	Peck, J. E. L.	835
Morse, M.		Alexiewicz, A.	507	Kantorovič, L. V.	835
Tranue, W.	188	Waśniewski, T.	508	Citlanadze, E. S.	835

Hilbert spaces.

Birman, M. Š.	32	Katětov, M.	419	Soyal, S.	718
Iohvidov, I. S.	33	Godement, R.	421	Hamburger, H. L.	718
Naimark, M. A.	111	Gelfand, I. M.	503	Nakamura, M.	719
Good, I. J.	173	Can, Cae-Pel	508	Cotlar, M.	
Yvon, J.	186	Cooper, J. L. B.	508	Ricabarra, R. A.	719
Zaanen, A. C.	186	Costa de Beauregard, O.	509	Anilbach, H.	733
Fage, M. K.	186	Mackina, R. Y.	598	Kato, T.	781
Kaplanaky, I.	186	Dixmier, J.	617	*Keldyš, M. V.	835
Schatten, R.	186	Gavurin, M. K.	617	Hamburger, H. L.	
Cherubino, S.	235	Fuglede, B.	266	Grimshaw, M. E.	836
Sz.-Nagy, B.	266	Sherman, S.	617	Julia, G.	836
Timan, A. F.	328	Daleckiĭ, Y. L.	617	Putnam, C. R.	836
Lehto, O.	337	Krein, S. G.	617	Magnus, W.	836
Akh'yev, N.	343	Mil'man, D.	618	Straus, A. V.	837
Povner, A.	343	Hartman, P.	717	Fallu de la Barrière, R.	837
Damsteg, I.		Wintner, A.	717	Nakano, H.	837
Halperin, I.	419	Wielandt, H.	717		
		Putnam, C. R.	717		

Other special spaces. Cf. Functions of real variables (functions in abstract spaces).

Schwartz, L.	31	Dixmier, J.	267	Monna, A. F.	715
Pitt, H. R.	85	Maruyama, G.	343	Sebastião e Silva, J.	715
Freeman, O.	98	Stampacchia, G.	489	Schwartz, J.	718
Deny, J.	98	Taylor, A. E.	508	Cameron, R. H.	718
Manukiewicz, S.	108	Zeller, K.	604	Cameron, R. H.	
Ganapathy Iyer, V.	108	Jerison, M.	616	Graves, R. E.	718
Bernstein, D. L.	111	Sargent, W. L. C.	616	*Schwartz, L.	833
Jerison, M.	188	Walters, S. S.	616	*Lévy, P.	834
Segal, I. E.	188	*Cooke, R. G.	694	Krasnosel'skij, M. A.	836
Calderón, A. P.					
Zygmund, A.	255				

Partially ordered spaces. Cf. Partially ordered sets.

Mikusiński, J. G.	107	*Kantorovič, L. V.		Et. erlein, W. F.	341
Bielecki, A.	108	Vulih, B. Z.		*Nakano, H.	419, 420
Renus, A.	108	Pinsker, A. G.	340	Tagamitaki, Y.	420
Benado, M.	237	Širohov, M. F.	341	Alexiewicz, A.	507
Sz.-Nagy, B.	266	Krein, M. G.		Krasnosel'skij, M. A.	617
		Rutman, M. A.	341	Pierce, R.	618

Normed rings, Banach algebras.

*Nyman, B.	108	Hewitt, E.	266	Šilov, G. E.	618
Naimark, M. A.	111	Stone, M. H.	331	Mil'man, D.	618
Šilov, G. E.	111	Buck, R. C.	391	Sebastião e Silva, J.	715
Katětov, M.	119	Sreider, Y. A.	420	Nakamura, M.	719
Kaplanaky, I.	186	Šnol', I. E.	421	Krein, M. G.	719
Šnol', I. E.	188	Bourgin, D. G.	421	Fallu de la Barrière, R.	837
Berezanskij, Y. M.		Ramaswami, V.	421		
Krein, S. G.	188, 189	Herstein, I. N.	475	Nakano, H.	837
Berezanskij, Y. M.	189	Arens, R.	616		

Equations in infinitely many variables. Cf. Differential equations (differential operators).

Cherubino, S.	235	Checucci, V.	617	Davis, P.	713
Bohr, H.-Folmer, E.	509	*Cooke, R. G.	694	Monna, A. F.	715
Campbell, R.	613				

FUNCTIONAL ANALYSIS. (Continued)

Existence theorems for differential, integral and functional equations; spectral theory.

Leray, J.	32	Picone, M.		Waślewski, T.	716
Birman, M. S.	32	Fichera, G.	265	Cronin, J.	716
Iohvidov, I. S.	33	Lesky, P.	266	Yood, B.	716
Kakutani, S.	33	Fuglede, B.	266	Taylor, A. E.	717
Ditkin, V. A.	95	*Nakano, H.	419	Wielandt, H.	717
Kodaira, K.	103	Nickel, K.	423	Soyal, S.	718
Fichera, G.	103	Bergman, S.		Hamburger, H. L.	718
*Nyman, B.	106	Schiffer, M.	503	*Schwartz, L.	833
Hille, E.	110	Cimmino, G.	503	Kantorovič, L. V.	835
Citlanadze, E. S.	110	Michal, A. D.	505	Citlanadze, E. S.	835
Krasnosel'skii, M. A.	111	Satō, T.	519	Keldyš, M. S.	835
Valnberg, M. M.	111	Gavurin, M. K.	617	Krasnosel'skii, M. A.	836
Tonelli, L.	113	Sherman, S.	617	Putnam, C. R.	836
Hartman, P.		Daleckiĭ, V. L.		Magnus, W.	836
Wintner, A.	187	Krein, S. G.	617	Straus, A. V.	837
Krasnosel'skii, M. A.	187	Krasnosel'skii, M. A.	617	Fréchet, M.	839
*Miranda, C.	265	Valnberg, M. M.	713		

FUNCTIONAL DETERMINANTS. See: calculus.

FUNCTIONAL EQUATIONS: SPECIAL TYPES. Cf. Differences (difference equations; generalized difference equations); functional analysis (existence theorems); operational calculus; special functions (functions defined by functional equations).

Ryfi-Nardzewski, C.	12	Knaster, B.	395	Klee, V. L., Jr.	486
Sanz Sanchez, A.	12	Pul'kin, S. P.	395	Thielman, H. P.	680
Thielman, H. P.	12	Thijssen, W. P.	396	Halperin, I.	685
de Bruijn, N. G.	106	Milkman, J.	416	Isaacs, R.	712
Germay, R. H.	106	Hadwiger, H.	416	Kotel'nikov, P. M.	712
Bagchi, H.		Bojanic, R.	483	Kestelman, H.	812
Chatterji, P. C.	106	Bonferroni, C.	483		

FUNCTIONAL SPACES. See: differential geometry (Finsler spaces); functional analysis; measure and integration; topology (topological spaces; applications).

FUNCTIONS OF COMPLEX VARIABLES. Cf. Algebraic functions; Dirichlet series; elliptic functions; Fourier integrals; integral transforms (Laplace integrals; Mellin transforms; self-reciprocal functions); harmonic functions; number theory (analytic tools).

*Jeffreys, H.		*Fuka, B. A.		*Carathéodory, C.	248
Jeffreys, B. S.	12	Sabat, B. V.	87	Leja, F.	399
Zaat, J.	31	*Markulevič, A. I.	87		

Power series. Cf. Series (power series).

Shah, S. M.	16	Robertson, M. S.	248	Kemperman, J. H. B.	600
de Castro Brzezicki, A.	20	Shah, S. M.	249	Cowling, V. F.	600
Cowling, V. F.	91	Lehner, J.	325	Illeff, L.	688
Jacobsthal, E.	169	Shah, S. M.	399	Dörge, K.	688
Aspeltin, A. G.	169	Sunyer Balaguer, F.	489	Tomić, M.	813
Pi Calleja, P.	169	Seleznev, A. I.	489	Rauch, L. M.	813

Zeros. Cf. Polynomials (zeros).

Illeff, L.	15	Lehner, J.	325	Shniad, H.	401
Montel, P.	23	St-Nagy, G.	325	Illeff, L.	600
Brödel, W.	169	Noble, M. E.	325	Bowen, N. A.	
*Walsh, J. L.	249	Obrechtkoff, N.	332	Macintyre, A. J.	689
de Bruijn, N. G.	250	Parodi, M.	333	Moneo, A.	690
Bernstein, S. N.	322	Vicente Gonçalves, J.	399		

Analytic continuation, singularities, overconvergence.

Blamert, M.	88	Turin, P.	490	Eagleton, H. G.	812
Yu, Chia-Yung.	88	Cowling, V. F.	600	Teghem, J.	813
Sunyer Balaguer, F.	88	Illeff, L.	600	Macintyre, S. S.	814
Lehto, O.	89	Dugué, D.	601	Agmon, S.	815
Cowling, V. F.	91	Zenit, T.	688	Yu, Chia-Yung.	815
Pi Calleja, P.	169	Val'sh, A. Z.	688	Tsuji, M.	815, 816
Gahov, F. D.	402	Martin, Y.	688	Hvedelidse, B. V.	817
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Guseinov, A. I.	172	Oğurtörel, N.	601	Reade, M. O.	817

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*Courant, R.	90	Jørgensen, V.	401	Finsl, A.	601
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Schiffer, M.		Komatu, Y.	490	Schiffer, M.	602
Spencer, D. C.	171	Nagura, S.		Komatu, Y.	690
Komatu, Y.	250	Komatu, Y.	490	Fouré, L.	691
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Spencer, D. C.	89	Robertson, M. S.	326	Robertson, M. S.	691
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Davies, D. R.	141	Charney, J. G.		Heinrich, G.	
Felgel'son, E. M.	212	Eliassen, A.	555	Klemenc, A.	788
Monin, A. S.	218	Kuo, Hsiao-lan.	649	Hollmann, G.	876
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Brier, G. W.	299	Van Mieghem, J.	649	Rouaud, A.	877
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Newlands, M.	459	Fu, C. Y.	763	Kanai, K.	868
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GRAPHICAL METHODS. See: numerical methods.

GRAPHS. See: mechanics (statics); topology (graphs).

GRAVITATION. See: astronomy (cosmology); geodesy (higher); geophysics (potentials); potential theory; relativity.

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Neumann, H.	76	Goffand, Y. A.	390	Neumann, H.	671
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Grün, O.	240	Neumann, H.	478	Stoll, R. R.	799
Skopin, A. I.	240	Falner, E.	480	Cunihin, S. A.	800
Kalounine, L.	240	Maak, W.	480	Reed, I. S.	800
Szele, T.	241	Hirsch, K. A.	587	Iino, R.	800
Vásquez García, R.		Smirnov, D. M.	587	Fedorov, Y. G.	800
Valle Flores, E.	316	Plotkin, B. I.	587	Tuan, Hsiao-Fu.	800
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Cernikov, S. N.	156	Foster, A. L.	480	Fröhlich, A.	672
Whitehead, J. H. C.	239	Jaffard, P.	480	Tuan, Hsiao-Fu.	800
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Gelfand, I. M.		Itô, S.	242	Nakayama, T.	
Cetlin, M. L.	9	Igusa, J.	217	Oshima, M.	672
Makar, R. H.	10	Ries, J.	317	Stanton, R. G.	672
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Naimark, M. A.	9	Abraham, G.	317	Mostow, G. D.	589
Gelfand, I. M.		Igusa, J.	317	Gotô, M.	
Cetlin, M. L.	9	Cohen, L. W.		Yamabe, H.	589
Makar, R. H.	10	Goffman, C.	317	Malcev, A. I.	589
Vilenkin, N. Y.	10	Edrei, A.	317	Matsushima, Y.	589
Kuranishi, M.	77	Ries, J.	317	Tamari, D.	670
Grabar, L. P.	77	Kawada, Y.	318	Matsushima, Y.	673
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Borel, A.	78	Gotô, M.	390	Tita, J.	673
Graev, M. I.	78	Kuranishi, M.	391	Vilenkin, N. Y.	673
Vilenkin, N. Y.	78, 79	Gleason, A. M.	391	Behrens, E.-A.	698
Naimark, M. A.	111	Graev, M. I.	391	Krein, M. G.	719
*Kowalewski, G.	137	Pettis, B. J.	391	Goodstein, R. L.	802
Scherf, P.	137	Buck, R. C.	421	Calabi, L.	803
Mautner, F. I.	137	Godement, R.	421	Gottschalk, W. H.	
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Hall, M., Jr.	138	Yamanouchi, T.	479	Schaefer, H. M.	810
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Melencov, A. A.	139	Chabauty, C.	479		
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Borel, A.	78	Gotô, M.	390	Matsushima, Y.	802
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Yamabe, H.	158	Calabi, L.	390	Chevalley, C.	802
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Kuo, Ke-Chan.	75	Cohen, L. W.		Bruck, R. H.	585
Evans, T.	75	Goffman, C.	317	Ballieu, R.	586
*Nyman, B.	108	Edrei, A.	317	Dubreil-Jacotin, M.-L.	670
Hille, E.	110	*Schwarz, Š.	389	Tamari, D.	670
Eberlein, W. F.	112	Thierrin, G.	389	Bateman, P. T.	670
Prék, V.	155	Gotô, M.	390	Teissier, M.	799
Murata, K.	155	Fuchs, L.	473	Stoll, R. R.	799
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HANKEL TRANSFORMS. See: integral transforms (Mellin transforms).

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Brelot, M.	26	Brelot, M.	258	Lelong, P.	694
Bonsall, F. F.	26, 83	Aki, K.	258	Rudin, W.	825
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Brelot, M.	26	Leja, F.	258	Leja, F.	703
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*Courant, R.	90	Myškin, A. D.	609	Reynolds, R. R.	826
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HYDROLOGY. See: geophysics (hydrology, oceanography).**HYDRODYNAMICS, AERODYNAMICS.** Cf. Acoustics; astronomy (figures of equilibrium); geophysics (hydrology, oceanography; meteorology).

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Schetzler, J. D.	296	Borg, S. F.	646	Czetwertyński, E.	862
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Rosby, C.-G.	58	Ertel, H.		Reiss, H. R.	762
Scheid, F.	58	Rosby, C.-G.	367	Escande, L.	762
Eisenberg, P.	58	Rose, A.	367	Jacobsen, L. S.	762
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LEBESGUE THEORY. See: functions of real variables; measure and integration.

LEGENDRE FUNCTIONS. See: interpolation; polynomials; special functions (Legendre functions).

LIE ALGEBRAS. See: algebra: abstract (Lie algebras).

LIE GROUPS. See: groups (Lie groups).

LINE GEOMETRY. See: differential geometry (differential line geometry); geometry (lines).

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MAGNETISM. See: electricity and magnetism (general theory; potentials); geophysics (potentials); geoelectricity, magnetism); potential theory (special potentials).

MAPS, THEORY OF. See: differential geometry (special mapping problems).

MARKOV CHAINS. See: probability (Markov chains).

MATHIEU FUNCTIONS. See: special functions (Legendre functions; functions defined by differential equations).

MATRICES. See: algebra: linear.

MAXIMUM PRINCIPLE. See: functions of complex variables (Schwarz lemma).

MEASURABILITY PROBLEMS. See: sets (measurability problems).

MEASURE AND INTEGRATION. Cf. Calculus; ergodic theory; functional analysis; functions of real variables; sets (measurability problems).

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Browne, S. H.		Zeuli, T.	760	Artobolevskii, I. I.	867
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Piśa, P. A.	242	Sierpiński, W.	590	Erdős, P.	674
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*Vinogradov, I. M.	10	Zakay, S.	243	Jabotinsky, E.	675
Haase, H.	12	Jarden, D.	481	Subba Rao, M. V.	675
Gloden, A.	80	Saks, G.	481	Gloden, A.	804
Beeger, N. G. W. H.	159	Bohr, H.-Følner, E.	509		

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Holzer, L.	11	Warga, J.	244	von Mises, R.	675
Wright, E. M.	11	Gloden, A.	318	Pietrosanti, A.	675
Segre, B.	80	Neville, E. H.	392	Potta, D. H.	675
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Gloden, A.	80	Obálth, R.	481	Moppert, K.-F.	804
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Gloden, A.	159	Moesner, A.	589	Errera, A.	853
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Brewer, B. W.	589	Rédei, L.	675	Moser, L.	804

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Kelly, J. B.	81	Kanold, H.-J.	592	Pall, G.	676
Walton, L. F.	160	Wang, S.	592	Lehmer, E.	677
*Pollard, H.	243	Kuroda, S.	593	Cohen, E.	677
Parry, C. J.	320	Brauer, R.	593	Hasse, H.	677
Châtelet, F.	354	Hasse, H.	594	Ankeny, N. C.	
Schott, C.	393	Davenport, H.	594	Rogers, C. A.	804
Yamashita, C.	393	Poitou, G.		Gut, M.	806
Chabauty, C.	395	Descombes, R.	594	Nagell, T.	852
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Hochschild, G.	315	Chowla, S.	393	Blaney, H.	676
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Delone, B. N.	82	Grosswald, E.	591	Blaney, H.	806
*Jones, B. W.	244	Varnavides, P.	678	Davenport, H.	806
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Ostmann, H.-H.	80	Singwi, K. S.		de Bruijn, N. G.	590
Shapiro, H. N.		Agarwala, B. K.	392	Lomada, G. A.	805
Warga, J.	244	Shapiro, H. N.	392	Halberstam, H.	805
*Sapir-Pyateckii, I. I.		Lepson, B.	392	Kubiyus, I.	805
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Erdős, P.	11	Anfert'eva, E. A.	319	Rényi, A.	590
Adelman, D. M.	159	Mahler, K.	319	Shapiro, H. N.	591
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 p -ADIC THEORY. See: algebra; abstract (p -adic theory); number theory.

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SERIES. Cf. Almost periodic functions; approximation; continued fractions; differences; Dirichlet series; Fourier series; functions of complex variables (polynomial expansions); interpolation; numerical methods (computation of series); polynomials (polynomial approximations); probability theory (random functions in analysis); Tauberian theorems.

Special sequences and series. Cf. Number theory (number-theoretical functions); special functions (functions defined by special expansions).

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	404	Scheen, W. L.	608		

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Convergence and summability.

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Barrucand, P.	20	Palmer, K. O.	404	Garreau, G. A.	695
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Erdoes, P.	91	Rajagopal, C. T.	404	Teghem, J.	695
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Popovitch, B.	92	Stark, M.	604	Rogers, C. A.	819
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Desanquet, L. S.	233	Bona, R. P., Jr.	693	Karamata, J.	820
Berwein, D.	233	Tsuchikura, T.	693	Postnikov, A. G.	820
Cosser, J.	233	Karamata, J.	694	Sunouchi, G.	820

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Vernotte, P.	20	Zeller, K.	604	Brunk, H. D.	808
Score, R. S.	237	Scheen, W. L.	608	van der Waerden,	
Luneberg, R. K.	305	*Cooke, R. G.	694	B. L.	808
Milosević, K.	403	Gross, W.	702	Lauwerier, H. A.	820
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Lelong, P.	694	Čelidze, V. G.	820

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Miller, K. S.		Go'dfarb, L. S.	413	Malkin, I. G.	706
Schwarz, R. J.	101	Andronov, A.		Lur'e, A. I.	
*Trimmer, J. D.	180	Maler, A.	413	Fialko, G. M.	712
Bulgakov, A. A.	180	Kasakevič, V. V.	413	Cypkin, Y. Z.	712
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SHELLS. See: elasticity (shells).

SOLIDS. See: potential theory (lattice potentials); quantum mechanics (solids).

SPECIAL FUNCTIONS. Cf. Elliptic functions; polynomials (special); tables (special functions).

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SPHERES AND CIRCLES, GEOMETRY OF. See: differential geometry (Laguerre geometry); geometry (lines).

SPHERICAL HARMONICS. See: special functions (Legendre functions).

SPHERICAL TRIGONOMETRY. See: trigonometry.

SPINORS. See: quantum mechanics; vector calculus.

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TRANSCENDENCY PROBLEMS. See: Diophantine approximations (transcendancy problems).

TRANSFINITE DIAMETER. See: polynomials (polynomial approximations); potential theory (capacity, constants).

TRANSFINITE NUMBERS. See: sets (transfinite numbers).

TRIANGLES. See: geometry (triangles).

TRIGONOMETRIC INTERPOLATION. See: Fourier series (trigonometric interpolation).

TRIGONOMETRIC POLYNOMIALS AND SERIES. See: Fourier series.

TRIGONOMETRY. Cf. Geodesy.

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UNIFORMIZATION. See: functions of complex variables (Riemann surfaces).

UNIVALENT FUNCTIONS. See: functions of complex variables.

UNIVERSAL ALGEBRA. See: algebra: abstract (universal algebra).

VALUATIONS. See: algebra: abstract (valuations).

VARIATIONAL PRINCIPLES. See: calculus of variations; differential equations; integral equations; numerical methods (differential equations).

VARIATIONS, CALCULUS OF. See: calculus of variations.

VECTOR AND TENSOR CALCULUS. Cf. Differential geometry; geometry (projective).

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VIBRATIONS. See: differential equations; elasticity (wave propagation); electricity and magnetism; hydrodynamics (wave propagation); mechanics (oscillations); numerical methods (differential equations); practical harmonic analysis).

VISCOUS FLUIDS. See: hydrodynamics (viscous fluids).

WARING PROBLEM. See: number theory (Waring problem).

WAVE MECHANICS. See: quantum mechanics.

WAVES. See: acoustics; differential equations; elasticity (wave propagation); electricity and magnetism (waves); geophysics; hydrodynamics (wave propagation); numerical methods (differential equations).

WEBS, GEOMETRY OF. See: differential geometry (families of curves).

WHITTAKER FUNCTIONS. See: special functions (Bessel functions).

ZEROS. See: algebra: equations (zeros); functions of complex variables (zeros); numerical methods (equations); polynomials (zeros); special functions.

ZETA FUNCTIONS. See: Dirichlet series (zeta functions); number theory.

ABBREVIATIONS OF NAMES OF JOURNALS: ADDENDA

This list supplements that given in volume 11, pp. 859-869. It gives the form of reference used in MATHEMATICAL REVIEWS and the complete title (when it differs from this form); the place of publication and other pertinent information are given in parentheses when desirable for clarity. Scripts other than Roman, Cyrillic and Greek are disregarded unless no title in one of these three appears.

- Abh. Dokumentationszentrum Technik.* Abhandlungen des Dokumentationszentrums der Technik. (Vienna.)
- Abh. Math.-Phys. Kl. Sächs. Akad. Wiss.* Abhandlungen der Mathematisch-Physischen Klasse der Sächsischen Akademie der Wissenschaften. (Leipzig. Continued as: *Abh. Sächs. Akad. Wiss. Math.-Nat. Kl.*)
- Abh. Sächs. Akad. Wiss. Math.-Nat. Kl.* Abhandlungen der Sächsischen Akademie der Wissenschaften zu Leipzig. Mathematisch-Naturwissenschaftliche Klasse. (Berlin.)
- Acoustica.* Acoustica. (Zürich.)
- Acta Math. Acad. Sci. Hungar.* Acta Mathematica Academiae Scientiarum Hungaricae. (Budapest.)
- Acta Phys. Acad. Sci. Hungar.* Acta Physica Academiae Scientiarum Hungaricae. (Budapest.)
- Acta Sci. Math. Szeged.* Acta Scientiarum Mathematicarum. (Szeged. Formerly: *Acta Univ. Szeged. Sect. Sci. Math.*)
- Acta Tech.* Acta Technica. Skupina za Uporabno Matematiko i Mehaniko. Series Mathematicae Applicatae et Mechanicae. (Ljubljana.)
- Acta Univ. Lundensis [Lunds Univ. Årsskrift]* N.S. Sect. 2 = *Acta Reg. Soc. Physiol. Lund.* [Kungl. Fysiög. Sällskapets i Lund Handlingar] N.S. Acta Universitatis Lundensis. Nova Series. Lunds Universitets Årsskrift. Ny Följd. Andra Avdelningen. Acta Regiae Societatis Physiographicae Lundensis. Kungl. Fysiografiska Sällskapets i Lund Handlingar. Ny Följd. (Continued as: *Lunds Univ. Årsskrift*. N.F. Avd. 2 = *Kungl. Fysiög. Sällskapets Handlingar*. N.F.)
- Akad. Nauk Armyan. SSR. Doklady.* Akademii Nauk Armyanskoi SSR. Doklady. (Erevan. Title also in Armenian. Formerly: *Acad. Sci. Armenian SSR. Proc.* [Doklady].)
- Akad. Nauk Armyan. SSR. Izvestiya. Fiz.-Mat. Estest. Teh. Nauki.* Akademii Nauk Armyanskoi SSR. Izvestiya. Fiziko-Mat., Estestvennye i Tekhnicheskie Nauki (Erevan. Formerly: . . . *Izvestiya Estestven. Nauki.*)
- Akad. Nauk Gruzin. SSR. Abastuman. Astrofiz. Obs. Byull.* Akademii Nauk Gruzinskoi SSR. Abastumanskaya Astrofizicheskaya Observatoriya. Byulleten'. (Tbilissi.)
- Akad. Nauk Gruzin. SSR. Trudy Tbiliss. Mat. Inst. Razmadze.* Akademii Nauk Gruzinskoi SSR. Trudy Tbilisskogo Matematicheskogo Instituta imeni A. M. Razmadze. (Tbilissi. Title also in Georgian.)
- Akad. Nauk SSSR. Inzhenernyi Sbornik.* Akademii Nauk SSSR. Otdelenie Tekhnicheskikh Nauk. Institut Mehaniki. Inzhenernyi Sbornik. (Moscow. Formerly: *Engineering Rev.*)
- Ann. Univ. Ferrara.* Parte I. Annali della Università di Ferrara. Parte I. (Formerly: *Annali dell'Università degli Studi di Ferrara.*)
- Arch. Math. Logik Grundlagenforsch.* Archiv für mathematische Logik und Grundlagenforschung. (Stuttgart.)
- Atti Accad. Naz. Lincei. Mem. Cl. Sci. Fis. Mat. Nat. Sez. I.* Atti della Accademia Nazionale dei Lincei. Memorie. Classe di Scienze Fisiche, Matematiche e Naturali. Sezione I* (Matematica, Meccanica, Astronomia, Geodesia e Geofisica). (Rome.)
- Atti Accad. Naz. Lincei. Mem. Cl. Sci. Fis. Mat. Nat. Sez. II.* Atti della Accademia Nazionale dei Lincei. Memorie. Classe di Scienze Fisiche, Matematiche e Naturali. Sezione II* (Fisica, Chimica, Geologia, Paleontologia e Mineralogia). (Rome.)
- Atti Accad. Sci. Lett. Arti Palermo. Parte I.* Atti della Accademia di Scienze Lettere e Arti di Palermo. Parte Prima: Scienze. (Palermo.)
- Bull. Acad. Sci. Georgian SSR [Soobsheniya Akad. Nauk. Gruzinskoi SSR].* Soobsheniya Akademii Nauk Gruzinskoi SSR. Bulletin of the Academy of Sciences of the Georgian SSR. (Continued as: *Soobsheniya Akad. Nauk Gruzin. SSR.*)
- Bull. Acad. Serbe Sci. Cl. Sci. Tech. (N.S.)* Bulletin de l'Académie Serbe des Sciences. Nouvelle Série. Classe des Sciences Techniques. (Belgrade.)
- Bull. Allahabad Univ. Math. Assoc.* The Bulletin of the Allahabad University Mathematical Association.
- Bull. Inst. Internat. Statist.* Bulletin de l'Institut International de Statistique. (Berne.)
- Bull. Tokyo Inst. Tech. Ser. B.* Bulletin of the Tokyo Institute of Technology. Series B.
- C. R. Acad. Bulgare Sci.* Doklady Bolgarskoi Akademii Nauk. Comptes Rendus de l'Académie Bulgare des Sciences. (Sofia. Formerly: . . . *Sciences Mathématiques et Naturelles.*)
- Canadian J. Physics.* Canadian Journal of Physics. (Ottawa.)
- Canadian J. Research. Sect. A.* Canadian Journal of Research. Section A. (Continued as: *Canadian J. Physics.*)
- Commonwealth of Australia. Dept. of Supply. Aeronaut. Res. Consult. Comm. Rep.* Commonwealth of Australia. Department of Supply. Aeronautical Research Consultative Committee. Report. (Melbourne.)
- Dopovidi Akad. Nauk Ukrain. RSR.* Dopovidi Akademii Nauk Ukrain'skoi Radyanskoi Socialistichnoi Respubliki. (Kiev.)
- Economica N. S.* Economica. New Series. (London.)
- Eng. Rep. Nat. Tsing Hua Univ.* The Engineering Reports of National Tsing Hua University. (Peking.)
- Eureka.* Eureka. The Journal of the Archimedians. (Cambridge, England.)
- Ganita.* Ganita. (Lucknow.)
- Glas Srpske Akad. Nauka.* Glas Srpske Akademije Nauka. (Belgrade. Continued as: *Glas Srpske Akad. Nauka. Od. Prirod.-Mat. Nauka.*)
- Glas Srpske Akad. Nauka. Od. Prirod.-Mat. Nauka.* Glas Srpske Akademije Nauka. Odeljenje Prirodno-Matematičkih Nauka. (Belgrade.)
- Hungarica Acta Math.* Hungarica Acta Mathematica. (Continued as: *Acta Math. Acad. Sci. Hungar.*)
- Hungarica Acta Physica.* (Continued as: *Acta Phys. Acad. Sci. Hungar.*)
- Inst. Roy. Meteorolog. Belgique. Mémoires.* Institute Royal Météorologique de Belgique. Mémoires. Koninklijk Meteorologisch Instituut van België. Verhandeligen. (Brussels.)
- Ist. Veneto Sci. Lett. Arti. Cl. Sci. Mat. Nat.* Istituto Veneto di Scienze, Lettere ed Arti. Venezia. Atti. Classe di Scienze, Matematiche e Naturali. (Venice. Formerly: . . . *Atti. Parte Seconda.*)
- Izvestiya Akad. Nauk Kazah. SSR.* Izvestiya Akademii Nauk Kazahskoi SSR. (Alma Ata. Title also in Kazak.)
- Izvestiya Akad. Nauk SSSR. Ser. Geofiz.* Izvestiya Akademii Nauk SSSR. Seriya Geofizicheskaya. (Moscow.)
- Izvestiya Akad. Nauk SSSR. Ser. Geograf.* Izvestiya Akademii Nauk SSSR. Seriya Geograficheskaya. (Moscow.)
- Izvestiya Akad. Nauk SSSR. Ser. Geograf. Geofiz.* Izvestiya Akademii Nauk SSSR. Seriya Geograficheskaya i Geofizicheskaya. (Continued as: *Izvestiya Akad. Nauk SSSR. Ser. Geofiz.* and *Izvestiya Akad. Nauk SSSR. Ser. Geograf.*)
- Izvestiya Kazan. Filial. Akad. Nauk SSSR. Ser. Fiz.-Mat. Teh. Nauk.* Izvestiya Kazanskogo Filiala Akademii Nauk SSSR. Seriya Fiziko-Matematicheskikh i Tekhnicheskikh Nauk. (Kazan.)
- J. Analyse Math.* Journal d'Analyse Mathématique. (Jerusalem. Title also in Hebrew.)
- J. Sci. Gakugei Fac. Tokushima Univ.* Journal of Science of the Gakugei Faculty, Tokushima University. (Tokushima)
- J. Sci. Res. Benares Hindu Univ.* The Journal of Scientific Research of the Benares Hindu University.
- Latvijas PSR Zinātņu Akad. Fiz. Mat. Inst. Raksti.* Latvijas PSR Zinātņu Akadēmija. Fizikas un Matemātikas Instituta Raksti. Akademii Nauk Latvinskoi SSR. Trudy Instituta Fiziki i Matematiki. (Riga.)
- Latvijas PSR Zinātņu Akad. Vēstis.* Latvijas PSR Zinātņu Akadēmijas Vēstis. Izvestiya Akademii Nauk Latvinskoi SSR. (Riga.)
- Lunds Univ. Årsskrift. N.F. Avd. 2 = Kungl. Fysiög. Sällskapets Handlingar. N.F.* Lunds Universitets Årsskrift. N.F. Avd. 2 = Kungl. Fysiografiska Sällskapets Handlingar. N.F. (Lund.)
- Mem. Fac. Sci. Eng. Waseda Univ.* Memoirs of the Faculty of Science and Engineering, Waseda University. (Tokyo.)
- Meteorol. Service. Geophys. Publ., Dublin.* An Roinn Tionscail agus Tráchtála, an tSeirbhís Mhétéarolaíochta. Foilseacháin Gheofisice. Department of Industry and Commerce, Meteorological Service. Geophysical Publications. (Dublin.)
- Mitt. Inst. Angew. Math. Zürich.* Mitteilungen aus dem Institut für angewandte Mathematik an der Eidgenössischen Technischen Hochschule in Zürich.
- Nederl. Akad. Wetensch., Proc.* Koninklijke Nederlandse Akademie van Wetenschappen. Proceedings. (Title varies. Continued as: *Nederl. Akad. Wetensch. Proc. Ser. A.* and *Nederl. Akad. Wetensch. Proc. Ser. B.*)

Nederl. Akad. Wetensch. Proc. Ser. A. Koninklijke Nederlandse Akademie van Wetenschappen. Proceedings. Series A. Mathematical Sciences. (Amsterdam.)

Nederl. Akad. Wetensch. Proc. Ser. B. Koninklijke Nederlandse Akademie van Wetenschappen. Proceedings. Series B. Physical Sciences. (Amsterdam.)

Pacific J. Math. Pacific Journal of Mathematics. (Berkeley, Calif.)

Proc. Benares Math. Soc. Proceedings of the Benares Mathematical Society. (Continued as: *Ganita*.)

Rep. Res. Inst. Fluid Eng. Kyushu Univ. Reports of the Research Institute for Fluid Engineering Kyushu University. (Fukuoka.)

Rep. Statist. Appl. Res. Union Jap. Sci. Eng. Reports of Statistical Application Research. Union of Japanese Scientists and Engineers. (Tokyo.)

Revista Científica. Revista Científica. (Rio de Janeiro.)

Scienca Revuo. Scienca Revuo. (Purmerend.)

Soobšeniya Akad. Nauk Grusin. SSR. Soobšeniya Akademii Nauk Gruzinskoi SSR. (Tbilisi. Title also in Georgian. Formerly contained titles also in English and German.)

Sowjetwissenschaft. Naturwiss. Abt. Sowjetwissenschaft. Naturwissenschaftliche Abteilung. (Berlin.)

Tellus. Tellus. A Quarterly Journal of Geophysics. (Stockholm.)

Trabajos Estadística. Trabajos de Estadística. (Madrid.)

Trav. Inst. Math. Tbilissi [*Trudy Tbiliss. Mat. Inst.*]. Akademiya Nauk Gruzinskoi SSR. Académie des Sciences de la RSSG. Trudy Tbilisskogo Matematicheskogo Instituta. Travaux de l'Institut Mathématique de Tbilissi. (Continued as: *Akad. Nauk Grusin. SSR. Trudy Tbiliss. Mat. Inst. Razmadze*.)

Univ. Buenos Aires. Contrib. Ci. Ser. A. Universidad de Buenos Aires. Facultad de Ciencias Exactas, Físicas y Naturales. Contribuciones Científicas. Serie A. Matematica.

Veröffentlichungen Deutsch. Aktuarvereins. Veröffentlichungen des Deutschen Aktuarvereins. (Berlin.)

Visnik Akad. Nauk Ukrain. RSR. Visnik Akademii Nauk Ukrain's'koï Radyans'koï Socialističnoi Respubliki.

ADDENDA AND ERRATA

VOLUME 1

P. 213: Suñer y Balaguer.

In the second line from the end read "for $0 < z < 1$ " instead of "when $z = 1$."

VOLUME 3

P. 312: Löwig.

In reviewing this paper some liberties were taken with the author's definitions of "invariant subring" and "join-extension." For the literal definitions see the paper in question.

G. Birkhoff (Cambridge, Mass.).

VOLUME 8

P. 560: Shafarevitch.

The last sentence of the review is misleading. Witt [J. Reine Angew. Math. 174, 237-245 (1936)] determined what p -groups could be Galois groups of arbitrary algebraic extensions of function fields of characteristic p ; Shafarevitch determined what p -groups could be Galois groups of extensions which are unramified (i.e., since he assumed the field of constants algebraically closed, which split completely) at every prime spot—a considerably deeper result.

Further important consequences follow. In the case of function fields, $n_0 + 1$ is to be replaced by γ , as in the original review, and "extension" by "everywhere unramified extension." (1) For a preassigned p -group there exists an extension K/k whose Galois group is isomorphic to G if and only if the minimal number of generators of G does not exceed $n_0 + 1$. (2) Let d be the minimal number of generators of the p -group G of order p^n and α its number of automorphisms. If $d \leq n_0 + 1$, the number of different extensions with Galois group G is equal to

$$\alpha^{-1} p^{(n_0+1)(n-d)} (p^{n_0+1}-1)(p^{n_0+1}-p) \cdots (p^{n_0+1}-p^{d-1}).$$

[The similar formula quoted in a review of another paper by Shafarevitch [Uspehi Matem. Nauk (N.S.) 2, no. 2(18), 223-226 (1947); these Rev. 10, 97] seems to be a misprint.] (3) Let G be a p -group and \bar{G} another p -group homomorphic to G with some preassigned homomorphism. For each extension K/k with Galois group G there exists an extension \bar{K}/k containing K and whose Galois group is \bar{G} while the preassigned homomorphism of \bar{G} to G is realized as the homomorphism of Galois group of field to Galois group of subfield.

G. Whaples (Bloomington, Ind.).

VOLUME 9

P. 139: Le-Van, Thiem.

Read "Thiem, Le-Van" for "Le-Van, Thiem" for the author's name.

P. 278: Araujo.

In line 2 of the title read "2, no. 1" instead of "2."

P. 483: Bruins.

The reviewer states in connection with $\sqrt{2} = 1$; 24, 51, 10: "The proposed method fails in this case." I wish to disagree with this remark and consider that it is based on an incorrect interpretation by the reviewer and Sachs [Mathematical Cuneiform Texts, New Haven, 1945, p. 43] of YBC 7289, which shows a square with side

$30' = \frac{1}{2}$. The diagonal is indicated as 42, 25, 35 (the double is 1; 24, 51, 10). Thus, in my opinion the discussion on p. 43 of the cited book should refer to $\sqrt{30'}$. In order to show that the proposed method does not fail, I simply quote the straightforward application of formulas I and II of this paper:

$$2 \times (30')^2 = 30' = (42')^2 + (6')^2, \quad 42' + \frac{36''}{2 \times 42' + 6'} = 42'24'',$$

$$30' = (42'24'')^2 + 2'' \cdot 14.24, \quad 42'24'' + \frac{2'' \cdot 14.24}{1'24'48''} = 42'25'35'''.$$

E. M. Bruins (Amsterdam).

VOLUME 10

P. 90: Ciriquian.

In line 3 of the title read "2, no. 2" instead of "2."

P. 255: Lorentz.

In the last line of the review it was stated that the proof was not complete. The proof may be completed and the necessary steps are given at the end of another paper by the author [Canadian Math. J. 3, 236-256 (1951)].

P. 473: Abellanas.

In line 2 of the title read "3, no. 1" instead of "3."

P. 693: Levin.

Delete the last sentence of the review.

VOLUME 11

P. 149: Bruins.

The reviewer states: "In table I of page 630 seven values of λ are overlooked, three of which violate the conditions $\alpha + \beta + \gamma \leq 13$, $\gamma \leq 3$ of page 631." The author disagrees with this and assumes that the reviewer made an error in carrying out the process indicated for the construction of table I in the paper. Eliminating all values of more than four places from tables of reciprocals, one is left with the four-place pairs of reciprocals of table I and no others.

E. M. Bruins (Amsterdam).

P. 221: Krzywoblocki.

In communications addressed to the reviewer, the author has taken exception to the statement that these two papers "are almost identical." Naturally, the treatment of two-dimensional and axisymmetric jets requires different coordinate systems and involves different forms of solutions. By "almost identical" the reviewer meant that the same straightforward process of approximation is employed, an analogous similarity transformation is used, and that the results have completely analogous forms. The reviewer believed that one review, together with the two clearly-stated titles, would suffice to indicate the content of both papers. The author disagrees, stating (in part): "Not only different transformations are used, but also in three-dimensional flow there appear singularities which do not appear in two-dimensional flow. Hence, there is a difference in particular solutions and in the final result, chiefly from a practical standpoint."

Y. H. Kuo (Ithaca, N. Y.).

P. 231: Gel'fond (second review).

On page 232, second column, lines 4 and 6, replace 9 by q (four occurrences).

- ✓ P. 271: Ghaffari.
This paper contains a part of the author's doctoral dissertation, dated January, 1948. His treatment of simple waves altogether avoids use of the theory of characteristics.
C. Truesdell (Bloomington, Ind.).
- ✓ P. 373: Halilov.
In line 3 from the bottom read "singular" for "single."
- ✓ P. 375: Prohorov.
Kawata's condition (b) is not necessary, but the modified (b') is.
K. L. Chung (Ithaca, N. Y.).
- ✓ P. 592: Duffin.
In the last two lines of the review read $\sin \frac{1}{2}\pi x t$ instead of $\sin \frac{1}{2}\pi t$.
- ✓ P. 644: Wiener and Geller.
In the line following the displayed formula read $\sum_{p \leq n} \log p$ for $\sum_{p \leq n} \log p_n$.
- ✓ P. 655: van der Waerden.
In line 3 of the review read $(a_1 - a_0)$ for $(a_0 - a_1)$.
In line 5 read 5.9053 for 5.903.
- ✓ P. 663: Fichera.
Le cercle polaire d'un tore est le cercle conjugué commun à tous les cercles méridiens, et non le lieu du centre des sphères inscrites (comme le rapporteur l'a écrit par inadvertance).
J. Deny (Strasbourg).
- ✓ P. 682: Hohenberg.
In line 3 of the title read "287-290" for "no. 14, 4 pp."
- ✓ P. 684: Piazzola Beloch.
In line 10 from the end of the review replace the sentence beginning "An axis of symmetry . . ." by "An axis of symmetry is necessarily a principal diameter if n is even, but not, of course, conversely. For n odd every axis of symmetry is perpendicular to the direction of an asymptote."
P. Du Val (Athens, Ga.).
- ✓ P. 696: Magyar.
The reviewer apologizes for his failure to check the author's quotation of the work of Oswatitsch. As pointed out to the reviewer by Dr. Sune B. Berndt, the author's eq. (1) is not to be found in Oswatitsch's paper, where the equations and the analysis are perfectly correct. The "divergence of opinions" thus appears to be created by the author.
C. Truesdell (Bloomington, Ind.).
- ✓ P. 715: Jacobsthal (second review).
In line 2 from the end read "same Forh. 23, 1-2 (1951); these Rev. 13, 15" for "forthcoming paper."
- VOLUME 12
- ✓ P. 9: Devidé.
In line 3 of the review the condition (*) should read $(ab)ac = a(bac)$ and $(asb)c = as(bc)$.
- ✓ P. 9: Almeida Costa.
In line 3 of the title read "5-32" for "32 pp."
- ✓ P. 15: Uhl.
In line 5 from the end read "result is that for the" instead of "result is that the."
- ✓ P. 41: Monna (second review).
In the last sentence insert "and connected" after "1-dimensional."
- ✓ P. 50: den Franchis.
The author's name should be de Franchis. In line 2 of the title read "Fondazione" for "Fordazione."
- ✓ P. 50: Wylie.
In line 5 of the review read "does not lie entirely on" for "lies entirely on."
- ✓ P. 51: Salini.
In the eleventh line of the review read "3d order" instead of "2d order."
- ✓ P. 84: Haupt, Aumann und Pauc.
After Band I insert the subtitle "Einführung in die reelle Analysis."
- ✓ P. 91: Levitan.
In the title read "Delsarte" for "Delsartes."
- ✓ P. 92: Popovitch.
In line 2 of the review read f_0^2 for s_0^2 .
- ✓ P. 94: Zamansky.
In line 7 of the review read " $\bar{f}(x)$ has $\bar{\varphi}(x)$ " for " $f(x)$ has $\varphi(x)$."
- ✓ P. 98: Frostman.
In the third line of the title read "3-23" for "no. 1, 1-21."
- ✓ P. 137: Isaacson.
In line 5 from the bottom read 336 for 638.
- ✓ P. 148: Ming (first review).
In line 16 of the review read "without" for "with."
- ✓ P. 160: Walton.
In line 8 from the end of the review read " $((3), (3, 2+i\sqrt{5})) \neq D$ " instead of " $((3), (3, 2+i\sqrt{5}) | \neq D)$."
- ✓ P. 179: Wintner.
The reviewer should be N. Levinson.
- ✓ P. 188: Segal.
In line 3 of the review read "which vanish at infinity on G " instead of "on G ." The theorem as stated is trivial.
L. H. Loomis (Cambridge, Mass.).
- ✓ P. 232: Annali della Scuola Normale Superiore di Pisa.
In the last line insert "have been issued or" between "series" and "are."
- ✓ P. 237: Szele.
In the title read "783-789 (1949). (Romanian, Russian, and German)" for "788-789 (1949)."
- ✓ P. 241: Szele.
In the title read "791-802 (1949). (Romanian, Russian, and German)" for "799-802 (1949)."
- ✓ P. 255: Ingham.
In line 2 of the review read $\lambda_n - \lambda_{n-1}$ for $\lambda_n - \lambda_{n+1}$.
- ✓ P. 305: Iijima.
In line 2 of the title read "1, no. 1" instead of "1."
- ✓ P. 311: Matsumoto.
In line 2 of the title read "Ser. A. Math." for "Ser. A."
- ✓ P. 317: Igusa.
In line 2 of the title read "Ser. A. Math." for "Ser. A."
- ✓ P. 325: Conti (second review).
The author's definitions were misquoted and do not require the minor modification suggested by the reviewer. The readers will easily make the necessary corrections in the review.
L. C. Young (Madison, Wis.).
- ✓ P. 334: Yoshizawa and Hayashi.
In line 3 of the title read "Ser. A. Math." for "Ser. A."
- ✓ P. 334: Prodi.
The result of this paper was proved earlier by H. Milloux [Prace Mat.-Fiz. 41, 39-54 (1934)].
W. Wasow (Los Angeles, Calif.).
- ✓ P. 381: Voellmy.
In line 4 from the end of the review (p. 382) read 1594 for 1694.
- ✓ P. 399: Grosswald.
The author's work appears to be independent of that of Miss R. C. Young who established a mere general theorem [Proc. Cambridge Philos. Soc. 27, 345-380 (1931), especially p. 365].
H. P. Mulholland (Birmingham).

P. 405: Izumi and Sunouchi.

The third sentence of the review should read as follows. "Then $\varphi_\alpha(t) = o(t^\alpha \log t^{-1})$ implies summability (C, α) at $t=x$ for $\alpha > 0$, and $\varphi_\beta(t) = o(t^\beta)$ for $0 < \beta < \gamma$ implies (C, α) summability at $t=x$ for $\alpha > \beta/(\gamma - \beta + 1)$." The authors also establish that $\varphi_1(t) = O(t \log t^{-1})$ is not sufficient for summability $(C, 1)$ and that $\varphi_1(t) = O(t^{1/\alpha})$ is not sufficient for summability (C, α) . P. Civin (Eugene, Ore.).

P. 464: Kallman and Päsler.

The reviewer should be H. Feshbach.

P. 480: Følner.

In line 3 of the review read 205 for 206; also, add "; these Rev. 8, 512" at the end of the reference.

P. 488: Okamura.

In line 2 of the title read "Ser. A. Math." for "Ser. A."

P. 488: Mizohata.

In line 2 of the title read "Ser. A. Math." for "Ser. A."

P. 492: Kusunoki.

In line 2 of the title read "Ser. A. Math." for "Ser. A."

P. 530: Rollero.

In the title read "N.S. Parte I. 7" for "N.S. 7."

P. 534: Kanitani (both reviews).

In line 3 of the title read "Ser. A. Math." for "Ser. A."

P. 581: Reid.

Delete the sentence in parentheses at the end of the review. The paper was reviewed from page proof and the misprint referred to was eliminated in the published version.

P. 583: Mitrinovich (second review).

In line 2 of the review read $V^{(a)}A_i$ for $V_\lambda A_i$, $\Lambda^{(a)}A_i$ for $\Lambda_\lambda A_i$, and "unions" for "union," and, in line 3, "cross-cuts" for "cross-cut."

P. 593: Brauer.

In the left hand side of the displayed formula (3) read \prod_a for $\prod \Omega$.

P. 613: Kato.

At end of line 5 of the review read "Physical Rev." for "same Rev."

P. 620: Singh.

This paper should have been listed under Geometry.

P. 626: Majstrenko.

In line 1 of the review read "semi-pseudo-metric spaces" for "semipseudo matrices." In line 9 from the end of the review replace \subset by $=$.
tan $LR/2k$.

P. 632: Obrechhoff.

In the displayed formula read $\tanh R/2k$ instead of

P. 694: Lelong.

In the title read "12-19" for "11-19."

P. 700: Straus.

In the title read "24-27" for "23-27."

P. 729: Koseki.

In line 2 of the title read "Ser. A. Math." for "Ser. A."

P. 805: Linnik.

In line 1 of the review read $\zeta(s)$ for $\zeta(0)$.

TRANSLITERATION OF RUSSIAN

The following system of transliterating Russian has been adopted by Mathematical Reviews for use beginning with volume 7.

a = a	л = l	ц = c
б = b	м = m	ч = č
в = v	н = n	ш = š
г = g	о = o	щ = šč
д = d	п = p	ъ = "
е = e	р = r	ы = y
ж = ž	с = s	ь = ' (soft sign)
з = z	т = t	э = è
и = i	у = u	ю = yu
й = i (hard)	ф = f	я = ya
к = k	х = h	

The system formerly used differed from this as follows: I was j, h was ch or kh, " was ' , ' was j, è was e, yu was ju, ya was ja.

Whenever an author's name is transliterated in the journal in which his paper appears, Mathematical Reviews uses that transliteration.

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